

qqq--thimerosal as adjuvant; typo?

5/34/8

DIALOG(R)File 351:Derwent WPI

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011076512

WPI Acc No: 1997-054436/199705

Stable vaccine compsns. - comprise a macrocyclic lactone, a milbemycin, an avermectin, an antigen, a dispersing agent, an adjuvant, a water sol. organic solvent and saline or water

Patent Assignee: AMERICAN CYANAMID CO (AMCY)

Inventor: COBB R M; SCHWARTZKOFF C L

Number of Countries: 023 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 750907	A2	19970102	EP 96304702	A	19960626	199706 B
AU 9656256	A	19970109	AU 9656256	A	19960628	199710
BR 9602939	A	19980422	BR 962939	A	19960628	199822
NZ 286896	A	19980527	NZ 286896	A	19960627	199827
ZA 9605539	A	19980624	ZA 965539	A	19960628	199831
AU 708464	B	19990805	AU 9656256	A	19960628	199943
US 5989566	A	19991123	US 95605	A	19950630	200002
			US 96672786	A	19960628	

Priority Applications (No Type Date): US 95605 P 19950630; US 96672786 A 19960628

Cited Patents: No-SR.Pub

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 750907 A2 E 19 A61K-031.365

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

AU 9656256 A A61K-039.00

BR 9602939 A A61K-039.116

NZ 286896 A A61K-029.05

ZA 9605539 A 36 A61K-040.00

AU 708464 B A61K-039.00 Previous Publ. patent AU 9656256

US 5989566 A A61K-045.00 Provisional application US 95605

Abstract (Basic): EP 750907 A

Vaccine compsn. comprises (w/v): a macrolide cpd. or its mixts. (0.05-2.5%); a water sol. organic solvent (0.1-10%); a dispersing agent (1-8%); an adjuvant (10-50%); at least 1 antigen, and saline and/or water.

The compsn. pref. comprises (w/v): macrolide cpd. or its mixts. (0.05-2.5 (esp. 0.1-1%); water sol. organic solvent (0.1-6 (esp. 0.2-2.5)%); dispersing agent (1-8 (esp. 2-7)%); *adjuvant* (10-50 (esp. 20-40)%); at least 1 antigen, and saline and/or water. The compsn. pref. further comprises up to 0.1% preservative. The macrolide cpd. is e.g. LL-F28249 alpha - lambda, a 23-oxo or 23-imino deriv. of a LL-F28249 alpha - lambda, esp. moxidectin, milbemycin D, milbemycin oxime, ivermectin, abamectin and doramectin, etc. The antigen is pref. selected from Clostridium perfringens type A, B, C and esp. D, esp. Clostridium septicum, Clostridium tetani, etc. The solvent is e.g. benzyl alcohol, methanol, ethanol, a propylene glycol, etc. The dispersing agent is e.g. polyethylene oxide sorbitan mono-oleate, a polyoxyethylene alcohol, etc. The *adjuvant* is e.g. Al(OH)₃ gel, potassium alum, protamine, aluminium phosphate and calcium phosphate. The *adjuvant* is e.g. *thimerosal*, formaldehyde, phenol, propylene glycol, etc.

USE - Compsn. is useful as a vaccine for helminthiasis, infection

by acarids and arthropod endo- ectoparasites and disease in warm-blood animals.

ADVANTAGE - Compsns. are stable in the presence of a dispersing agent and may be stored for prolonged periods of time without loss of antigen and macrolide potency.

Dwg.0/0

Derwent Class: A96; B02; C02; D16

International Patent Class (Main): A61K-000/00; A61K-031/365; A61K-039/00;

A61K-039/05; A61K-039/116; A61K-045/00

International Patent Class (Additional): A61K-031/35; A61K-031/71;

A61K-039/02; A61K-039/08; A61K-039/102; A61K-047/02; A61K-047/34;

A61K-031-365; A61K-039/05

qqq--thimerosal as an adjuvant

L4 ANSWER 27 OF 29 CAPLUS COPYRIGHT 2002 ACS

AN 1971:417711 CAPLUS

DN 75:17711

TI Injection of newborn mice with seven chemical ***adjuvants*** to help determine their safety in use in biologicals

AU Derse, Philip H.

CS Wisconsin Alumni Res. Found., Madison, Wis., USA

SO U.S. Clearinghouse Fed. Sci. Tech. Inform., PB Rep. (1969), No. 195153, 135 pp. Avail.: NTIS

From: U. S. Govt. Res. Develop. Rep., 1970, 70(24), 56

CODEN: XCCRAO

DT Report

LA English

AB Mice less than 24 hr old were injected s.c. with benzethonium chloride, ethylene chlorohydrin, ethylene glycol, methylparaben, phenol red, ***thimerosal***, or pyridine. The mice were examd. after 15 months

for

evidence of carcinogenic activity. None of the compds. appeared to have oncogenic potential.

IT ***54-64-8***

RL: BAC (Biological activity or effector, except adverse); BIOL

(Biological study)

(carcinogenic activity of)

FINAL REPORT

Contract No. PH 43-67-684

April 27, 1967 - April 26, 1969

WARE Institute, Inc.
Box 2037
Madison, Wisconsin

Library
Lederle Laboratories Div.
American Cyanamid Company
Pearl River, N. Y.

June 19, 1969

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At approximately 15 weeks of age the mouse population was afflicted with a respiratory condition which produced a moderate level of mortality.

Although mortality was higher than would be preferred during this early period, it was decreased and maintained at a low level through the majority of the test period allowing adequate survival at termination for gross and histologic examination. Animals sacrificed at termination showed a comparatively low level of serious non-neoplastic pathology.

Tumor incidence at the site of injection was as anticipated in the positive control groups receiving levels of DBA in oil. DBA in saline did not produce similar tumors at the site of injection, but the high level injection did result in a significant increase in number of lung adenomas. Other tumor occurrence presented a picture of random distribution among control and test groups typical of spontaneous tumors in mice. There was no correlation between a test material and/or dose level and neoplasm production.

Under the conditions of this study, in mice shown to be susceptible by their response to the known carcinogen DBA, the compounds tested were shown to not be chemical carcinogens.

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Contract No. PH 43-67-684

Final Report
WARF Institute, Inc., Madison, Wisconsin

Objective of study:

To confirm that the compounds tested are safe as used in biological products, with special emphasis on determining any possible carcinogenicity. Compounds being tested are:

Pyridine - Fisher Lot 762678

Ethylene glycol - Fisher Lot 764959

2-Chlorethanol - Eastman Cpd. 131

Benzethonium chloride - Rohm & Haas Lot 9781

Phenol Red - National Aniline Lot 2606P

Thimerosal, N. F. - Lilly Control OSE40C

Methyl Parasept - Heyden Lot 1316

General description of study:

The procedure employed generally followed that described by Kelly, M.G. and O'Gara, R.W., Induction of Tumors in Newborn Mice with Dibenz(a,h) Anthracene and 3-methylcholanthrene, J. Nat. Cancer Inst. 26:651-679 (1961), and involved the administration of a single dose of the test material subcutaneously in newborn mice within 24 hours after birth, followed by observation for 15 months. The dosage levels chosen were that level causing approximately 50% mortality of treated animals as the high level and one-tenth that level for the low level. Sterile saline was used as the diluent for the test materials and as the negative control material. 1, 2, 5, 6-Dibenzanthracene (DBA) was used as the positive control and administered at 2 levels, one high and one low based on literature

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reports of level of activity and in two different vehicles, sterile saline and corn oil. The following general group allotment was used:

Table 1

Negative control
Test material (high level)
Test material (low level)
Positive control in corn oil (high level)
Positive control in corn oil (low level)
Positive control in saline (high level)
Positive control in saline (low level)

A preliminary series of injections was conducted to determine the high dosage level or dosage resulting in 50% mortality of treated animals. This study resulted in the selection of dosage levels and the injection schedule noted in Table 2.

Method

Texas-Yale albino mice, Texas Inbred Mice Co., Houston, Texas, were used in this study. The mice were maintained on Purina Breeder Chow from five weeks of age through litter production and weaning. The mice were housed in double screen bottom (16 x 10 x 7 inches) cages, 10 mice per cage, until breeding began when three females and one male were placed in single screen bottom cages. When pregnancy was obvious, the female was removed to a 11.5 x 7.5 x 5 plastic shoe box type cage bedded with ground treated corn cob*, where she remained until her litter was weaned.

*San-I-Cel (Paxton Processing, Inc., Paxton, Illinois).

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Each morning the cages were checked for newborn litters and any young were weighed and injected subcutaneously with the appropriate compound. At birth litters were assigned at random to the groups. To inject solutions a 27 gauge needle was inserted under the skin at the base of the tail and inserted along the hypodermal layer to the area of the neck and shoulders where .05 ml of the compound dilution was deposited. Minimal leakage was observed with this method. Plastic disposable gloves were worn when handling the animals to avoid rejection of the litter by the female. 0.25 cc glass syringes were used for the test. After injecting a litter, the syringe and needle were washed thoroughly in hot soapy water, rinsed in alcohol, individually wrapped in a clean white paper towel and autoclaved at 248° F for 20 minutes.

At weaning the animals were sexed, ear marked and placed in screen bottom cages, 5 animals per cage. Commercial laboratory pellets and water were supplied ad libitum. The animals were weighed weekly for the first thirteen weeks and every other week for the remainder of the test.

When mice were approximately 15 weeks of age a number of animals developed symptoms of respiratory disease which appeared to be progressing. Cages of animals showing evidence of illness or weight loss were transferred to shoe box cages and isolated from the main group of animals. Approximately 500 animals were isolated although a portion of these showed minimal symptoms such as slight weight loss. Some mortality occurred in isolated animals. This procedure appeared to

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halt the immediate spread of the condition in the main population. After several weeks of isolation it was apparent that the main population contained a significant number of new cases indicating a continuing problem. Transfer of groups or individuals showing symptoms was continued. All mortalities were examined grossly and tissues collected according to the schedule in the protocol. During this same period it was found that the mice isolated in the shoe box cages were developing clinical infestations of sarcoptic mange mites. Examining the general population, a low level infestation was discovered in the entire group. The entire population was treated with a DDT dust preparation at 15 and 19 weeks. Whether the mites were introduced in bedding or on the parent animals was not determined.

Mice from other studies at the laboratory were examined. Although from a different source, they had been housed in adjacent rooms and these mice at 15 months, did not show the respiratory problems or mite infestation mentioned above.

Results and Discussion

Body weight and survival data are presented on a weekly basis in Tables 5 through 14 and are summarized in Table 3A. The summary, Table 3A, presents data at termination. When weighings were put on a bi-weekly basis, portions of each group are generally weighed every week, but in ethylene glycol group all the animals in a group are weighed at the same week and therefore body weight data is noted every other week. Table 3B summarizes the incidence and location of all non-neoplastic lesions observed grossly or histologically in animals dying during test. Table 3C presents similar data for animals sacrificed terminally.

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Fate of animals and tumor incidence for animals dying on test are given for individual animals in tables 15 through 52 and summarized on table 4A. Similar data on animals sacrificed at termination are presented in summary on table 4B and individual in tables 53 through 90. On the pages facing table 15 and table 53 is an explanation of the table arrangement and data presented in the tables that follow.

Body weight data in general show normal average animal weights and the variation is generally within limits expected. In groups receiving Thimerosal, males and females on the high level dose, had notably lower body weights when compared with the animals on the low level dose. In female groups receiving Benzethonium chloride, methyl parasept and DAB (in corn oil), females receiving the higher dose level showed somewhat lower body weights. The weights generally bracket the weight noted for the negative control females.

Survival data reveals no clear-cut pattern with respect to dose levels, although there is some correlation of higher mortality with higher dose in groups receiving benzethonium chloride and DBA. Mortality differences between groups does not appear to correlate with test material administered. Males appear to be more susceptible than females to the infection. A moderate mortality has occurred throughout the period from the first appearance of the respiratory condition. During the last 9 months previous to termination, mortality was quite constant and averaged approximately 2 to 3 animals per day of the approximately 1500 surviving animals.

Continuing close attention to the sanitation and general husbandry of these animals limited the mortality. Continual observation for mor-

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talities and sacrifice of moribund animals has allowed collection of an adequate tissue sampling. During the terminal months of the study, these procedures were emphasized. Very few animals in the total study were cannibalized or otherwise lost so we were unable to conduct at least a gross examination for tumors.

Tables 3B and 3C indicate the general level of non-neoplastic pathology. The lung lesions noted are those of severe chronic respiratory disease. Although this was the frequent lesion of those animals dying on test and was, in many instances the prime cause of mortality, the animals surviving to termination showed a remarkably low percent of respiratory tract lesions.

Kidney lesions were noted frequently on histologic examination but were predominantly minimal to slight dilation of tubules with some cystic changes. This occurred in control as well as test animals, was not apparently related to treatment or dose level and was considered a spontaneous lesion of the aging mice.

Other urinary tract lesions were of primarily two types and were sex related. Males showed a typical infection of the lower urinary tract which, in some cases, resulted in ascending infection of partial urethral blockage which caused pathologic changes in the urinary bladder and kidney pelvis. In the females, nearly every individual showed some degree of cystic endometritis. This varied from minimal lesions seen only histologically to severe enlargement which was obvious grossly. The urinary tract lesions noted appear to be normal spontaneous lesions of aging in this mouse population.

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Other lesions noted were infrequent, randomly scattered among control and test groups and not related to treatment or dose level. Except for the high incidence of respiratory disease which we have not encountered in any other studies to date, the level of non-neoplastic lesions were not unusual as far as experience with random bred Swiss white type mice in long term studies at this laboratory. Even the level of respiratory tract lesions was low in those animals surviving to termination.

Tumor incidence as summarized in tables 4A and B show 3 major tumor types occurring during the study: lung adenoma, lymphosarcoma, and sarcoma of fibro and/or spindle-cell type. Other neoplasm types observed, were infrequent and randomly scattered in control and test groups.

Lung adenomas were observed in most groups and primarily in those animals which survived to termination of the study. Except in the groups receiving the positive control material (DBA), the lung adenomas were noted randomly distributed among test and negative control animals with no correlation to particular test materials and no dose related response. In the groups receiving DBA in saline there is a significant increase in number of animals with lung adenoma and this is directly related to the dosage level. In animals receiving DBA in oil, there is some slight indication of similar response, but apparently susceptible animals had already been eliminated by sarcomas or the material has a variation in site of activity depending on vehicle and form in which

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it is given. It also is apparent in this study that lung adenomas did not develop to any great extent until the 12 to 15 month period.

The incidence of lymphosarcomas observed was typical of the frequency we have noted in mice in previous studies, and there is no apparent correlation between the lymphosarcoma and treatments or dosage levels.

The other sarcomas noted were primarily in two locations, the injection site in the case of animals receiving DBA in oil, and the uterus in females of a majority of the groups. The sarcomas at the injection site were limited to the positive control groups and typical of the type produced by DBA. The tumors noted in the uteri were typically fibrosarcomas, randomly distributed among the various groups and generally associated with chronic endometritis. Other types and locations of sarcomas were infrequent and not related to treatment, sex or dose level.

It is interesting to note, the development of spontaneous mammary tumors was absent in this strain of mice.

Conclusion

In a study involving single injection of day-old mice with seven compounds and subsequent observation for 15 months, there were no indications of chemical carcinogenicity produced, by any of the test compounds. 1,2,5,6-Dibenzanthracene (DBA) produced the anticipated carcinogenic response at both high and low levels when injected in corn

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oil solution producing sarcoma growth at the site of injection. DBA injected in a saline suspension did not produce neoplasms at the site of injection, but produced a significant increase in the incidence of lung adenoma in the animals receiving only the high dose level of DBA.

Signed _____

By and for WARF INSTITUTE, INC.

Date June 20, 1969

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Table 2

Resume of Mouse Injections

Compound	Dilution**	Dose (mgm)	Number of mice			% mortality
			Injected	Dead	Surviving	
Saline	--	(0.05 ml)	532	108	424	20
Pyridine	1 to 37.5	1.33	267	152	115	57
	1 to 375	0.133	185	74	111	40
Ethylene glycol	1 to 5	10.0	242	123	119	51
	1 to 50	1.0	161	43	118	27
2-Chlorethanol	1 to 300	0.17	294	168	126	57
	1 to 3000	0.017	159	48	111	30
Benzethonium	1 to 1500	0.034	203	84	119	41
	1 to 15,000	0.0034	135	18	117	13
Phenol Red***	1 to 30	1.7	144	26	118	18
	1 to 300	0.17	165	47	118	28
Thimerosal	1 to 625	0.08	209	89	120	43
	1 to 6250	0.008	149	31	118	21
Methyl Parasept	1 to 100	0.5	136	23	113	17
	1 to 1000	0.05	162	46	116	28
DBA* (in oil)	1 to 7462	0.0067	153	27	126	18
	1 to 250,000	0.0002	153	38	115	24
DBA* (in saline)	1 to 7462	0.0067	169	43	126	25
	1 to 250,000	0.0002	153	51	102	33

*Dosage determined from levels reported in literature.

**All dilutions in saline except for 2 DBA groups in oil.

0.05 cc of dilution given to each mouse.

***Unable to produce 50% mortality. Used near saturated solution of test material in saline as high dose level.

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Table 3
Body Weight and Survival Summary

Group	Sex	Dilution	No. of animals allotted	Average weight (gms)		Survival data - terminal	
				Weaning	Terminal	Percent of animals surviving	Mortality to date
Saline	M	--	200	10.8	35	47.5	105
Saline	F	--	200	10.7	31	69.0	62
Pyridine	M	1-37.5	50	10.6	33	58	21
Pyridine	F	1-37.5	50	10.2	30	78	11
Pyridine	M	1-375	50	10.2	35	48	26
Pyridine	F	1-375	50	10.0	31	62	19
Ethylene glycol	M	1-5	50	9.9	36	54	23
Ethylene glycol	F	1-5	47	9.4	28	64	17
Ethylene glycol	M	1-50	50	10.2	36	60	20
Ethylene glycol	F	1-50	50	9.9	30	72	14
2-Chlorethynol	M	1-300	50	12.5	35	56	22
2-Chlorethynol	F	1-300	50	11.3	32	88	6
2-Chlorethynol	M	1-3000	47	9.6	35	49	27
2-Chlorethynol	F	1-3000	50	11.9	32	78	11
Benethonium chloride	M	1-1500	50	10.9	34	40	30
"	F	1-1500	50	9.8	30	50	25
"	M	1-15,000	50	10.6	34	44	28
"	F	1-15,000	50	10.1	32	72	14
Phenol Red	M	1-30	50	10.6	34	52	24
Phenol Red	F	1-30	50	10.1	33	76	12
Phenol Red	M	1-300	50	9.9	35	36	32
Phenol Red	F	1-300	50	10.0	33	70	15
Thimerosal	M	1-625	50	10.6	31	60	20
Thimerosal	F	1-625	50	11.0	29	78	11
Thimerosal	M	1-6250	50	9.6	35	60	20
Thimerosal	F	1-6250	50	9.9	33	66	17
Methyl parasept	M	1-100	50	10.3	35	64	18
Methyl parasept	F	1-100	50	10.5	30	62	19
Methyl parasept	M	1-1000	50	10.0	35	48	26
Methyl parasept	F	1-1000	50	10.4	32	76	12
DBA-corn oil	M	1-7462	50	10.3	36	32	34
DBA-corn oil	F	1-7462	50	10.3	29	44	28
DBA-corn oil	M	1-250,000	50	10.5	36	46	27
DBA-corn oil	F	1-250,000	50	10.2	32	58	21
DLA-saline	M	.75 mg/ml	50	9.8	34	40	30
DBA-saline	F	.75 mg/ml	45	10.0	30	66	15
DBA-saline	M	.075 mg/ml	50	11.2	35	54	23
DBA-saline	F	.075 mg/ml	48	10.3	31	81	9

*DBA-011 mortality reflects animals sacrificed because of tumors.

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Table 3B
Incidence of non-neoplastic pathology
Animals dead on test, number and location

<u>Males</u>							
<u>Treatment</u>	<u>Lung</u>	<u>Kidney</u>	<u>Spleen</u>	<u>Lymph node</u>	<u>Adrenal</u>	<u>Urogenital tract</u>	<u>Other</u>
Saline	7	4	0	0	0	22	3
Pyridine Lo	5	0	0	0	0	6	1
" Hi	0	0	0	0	0	2	0
Eth. glycol Lo	0	1	0	0	0	4	0
" Hi	0	3	0	0	0	4	0
Chlorethanol Lo	4	3	0	0	0	5	1
" Hi	2	0	0	0	0	1	1
Benzethonium Lo	2	5	2	1	0	7	1
" Hi	2	1	0	0	0	1	0
Phenol Red Lo	3	4	0	0	0	9	0
" Hi	1	0	0	0	0	1	1
Thimerosal Lo	3	2	1	0	0	3	3
" Hi	1	0	0	0	0	1	1
Meth. parasept Lo	3	2	1	0	0	11	0
" Hi	6	1	0	0	0	5	1
DBA-oil Lo	1	4	0	0	0	2	1
" Hi	2	3	0	0	0	6	1
DBA-saline Lo	3	3	0	0	0	7	1
" Hi	3	1	0	0	0	3	0

Table 3C
Incidence of non-neoplastic pathology
Animals dead on test, number and location

Females

<u>Treatment</u>	<u>Lung</u>	<u>Kidney</u>	<u>Spleen</u>	<u>Lymph node</u>	<u>Adrenal</u>	<u>Urogenital tract</u>	<u>Other</u>
Saline	13	3	1	0	0	3	3
Pyridine Lo	7	2	0	0	0	0	0
" Hi	0	0	0	0	0	1	0
Eth. glycol Lo	4	1	0	0	0	0	0
" Hi	5	1	0	0	0	0	0
Chlorethanol Lo	1	0	0	0	0	0	0
" Hi	2	0	0	0	0	0	2
Benzethonium Lo	0	0	0	0	0	0	0
" Hi	1	0	0	0	0	0	1
Phenol Red Lo	0	0	0	0	0	0	0
" Hi	3	0	0	0	0	1	1
himerosal Lo	4	1	0	0	0	0	2
" Hi	1	0	0	0	0	0	0
Meth. parasept							
Lo	3	0	0	0	0	1	1
Hi	2	1	0	0	0	0	0
DBA-oil Lo	1	0	0	0	0	0	3
" Hi	1	0	0	0	0	0	2
DBA-saline Lo	2	0	0	0	0	0	0
" Hi	1	0	0	0	0	0	1

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Table 4A
Summary of Tumor Incidence
Animals dead on test
Males

Treatment and Table Number	Benign neoplasms				Malignant neoplasms			Total animals	
	Lung adenoma	Adenoma or fibroma	Skin papil- loma	Heman- gioma	Sarcoma		Carcin- oma	With tumors	Exam. gross
					Lympho.	Other			
Saline-15	-	-	-	-	-	-	-	0	94
Pyridine									
Lo-17	-	-	-	-	1	-	-	1	26
Hi-19	-	1	-	-	1	-	-	0	20
Eth. glycol									
Lo-21	-	-	-	-	-	-	-	0	19
Hi-23	-	-	-	-	-	-	-	0	23
Chlorethanol									
Lo-25	-	-	-	-	2	-	-	2	23
Hi-27	1	-	-	-	-	-	-	1	20
Benzetho- ium									
Lo-29	-	-	-	-	-	-	-	0	24
Hi-31	-	-	-	-	1	-	-	1	29
Phenol red									
Lo-33	-	-	-	-	-	-	-	0	32
Hi-35	-	-	-	-	-	-	-	0	21
Chimerosal									
Lo-37	-	-	-	-	2	-	-	2	20
Hi-39	-	-	-	-	-	-	-	0	20
Eth. para- ept									
Lo-41	1	-	-	-	-	-	-	1	24
Hi-43	1	-	2	-	-	-	-	3	18
DBA-oil									
Lo-45	-	-	-	-	1	5	-	6	26
Hi-47	-	-	1	-	-	15	-	16	36
DBA-saline									
Lo-49	-	1	2	-	2	-	-	4	30
Hi-51	1	-	-	-	1	-	-	2	23

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Table 4A (continued)
Summary of Tumor Incidence
Animals dead on test
Females

Treatment and Table Number	Benign neoplasms				Malignant neoplasms			Total animals	
	Lung ade- noma	Adenoma or fibroma	Skin papil- loma	Heman- gioma	Sarcoma		Carcin- oma	With tumors	Exam. gross
					Lympho.	Other			
Saline-15	1	-	-	-	2	-	1	3	50
Pyridine									
Lo-18	-	-	-	-	-	-	-	0	19
Hi-20	-	-	-	-	1	-	-	1	12
Eth. glycol									
Lo-22	-	-	-	1	-	-	-	1	14
Hi-24	-	-	-	-	1	-	1	2	17
Chlorethanol									
Lo-26	-	-	-	1	1	-	-	2	8
Hi-28	-	-	-	-	1	-	-	1	5
Benzetho- nium									
Lo-30	-	-	-	1	-	-	-	1	15
Hi-32	-	-	-	-	-	-	-	0	25
Phenol red									
Lo-34	-	-	-	-	-	-	-	0	11
Hi-36	-	-	-	-	1	1	-	2	13
Thimerosal									
Lo-38	-	-	-	-	-	-	-	0	17
Hi-40	-	-	-	-	-	1	-	1	12
Meth. para- sept									
Lo-42	-	-	-	-	-	-	-		7
Hi-44	-	-	-	-	-	1	-	1	19
DBA-oil									
Lo-46	-	-	-	-	1	5	-	6	21
Hi-48	-	1	-	-	1	11	-	13	26
DBA-saline									
Lo-50	-	-	-	-	-	1	-	1	15
Hi-52	-	-	-	-	-	-	-	0	7

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Table 4B

Summary of Tumor Incidence
Animals killed at termination
Males

Treatment and Table Number	Benign neoplasms				Malignant neoplasms			Total animals	
	Lung adenoma	Adenoma or fibroma	Skin papiloma	Heman- gioma	Sarcoma		Carcinoma	With tumors	Exam. histo.
					Lympho.	Other			
line-53	1	1	1	-	1	-	-	4	33
tridine									
20-55	1	-	-	-	-	-	-	1	24
Hi-57	2	-	-	-	1	-	-	3	26
h. glycol									
20-59	-	-	-	-	-	-	-	0	22
Hi-61	1	-	-	-	1	-	-	2	22
lorethanol									
20-63	1	-	-	-	-	-	-	1	16
Hi-65	-	-	-	-	-	-	-	0	22
nzetho- m									
20-67	1	-	-	-	-	-	-	1	17
Hi-69	-	-	-	-	-	-	-	0	19
enol Red									
20	-	-	-	-	-	-	-	0	15
Hi-73	1	-	1	-	-	1	-	3	25
imerosal									
20-75	1	-	-	-	-	-	-	1	20
Hi-77	1	-	1	-	-	-	-	2	25
eth. para- pt									
20-79	3	-	-	-	-	-	-	3	20
Hi-81	-	-	-	-	-	-	-	0	20
SA-oil									
20-83	1	-	-	-	1	1	-	2	19
Hi-85	2	1	-	-	-	1	-	3	13
SA-saline									
20-87	-	-	-	-	1	-	-	1	18
Hi-89	10	-	-	-	1	1	-	12	24

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Table 4B (continued)
Summary of Tumor Incidence
Animals killed at termination

Females

Treatment and Table Number	Benign neoplasms				Malignant neoplasms			Total animals	
	Lung adenoma	Adenoma or fibroma	Skin papil- loma	Heman- gioma	Sarcoma		Carcin- oma	With tumors	Exam. histo.
					Lympho.	Other			
Saline-54	9	1	-	1	7	1	-	13	43
Pyridine									
Lo-56	-	-	-	2	4	2	-	7	25
Hi-58	-	1	-	-	5	2	-	7	26
Eth. glycol									
Lo-60	-	-	-	-	5	1	-	5	21
Hi-62	-	-	-	-	2	2	-	4	23
Chlorethanol									
Lo-64	-	-	-	-	5	1	-	11	25
Hi-66	3	-	-	1	7	-	-	11	24
Benzetho- nium									
Lo-68	1	-	-	-	3	-	-	4	27
Hi-70	2	-	-	-	1	-	-	3	22
Phenol red									
Lo-72	1	-	-	-	1	-	-	2	28
Hi-74	1	-	-	-	5	2	-	7	28
Thi. cresal									
Lo-76	2	-	-	-	1	-	-	3	23
Hi-78	3	-	-	1	1	1	-	6	23
Meth. para- sept									
Lo-80	-	1	-	-	4	-	-	4	24
Hi-82	2	-	-	-	-	-	-	2	20
DBA-oil									
Lo-84	1	-	-	-	1	2	-	4	24
Hi-86	4	-	-	-	1	1	-	5	21
DBA-saline									
Lo-88	2	1	-	-	1	-	-	4	21
Hi-90	13	-	-	-	6	1	-	18	30

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Table 5. Body Weight and Survival Data

Week	Saline			
	Body weight - gms (average individual)		Survival (%)	
	Male	Female	Male	Female
1	16	15	100	100
2	21	19	100	100
3	23	21	100	100
4	25	22	100	100
5	27	23	100	100
6	28	24	100	99
7	28	25	100	99
8	29	25	99	99
9	29	25	98.5	99
10	30	25	98.5	99
11	30	25	98.5	98
12	31	26	97.5	97.5
13	31	26	96.5	97.5
14	31	26	94.5	97.5
15	32	26	91.5	94.5
16	31	27	89.5	93.0
17	31	27	88.5	93.0
18	32	27	87.5	92.5
19	32	27	86.5	92.5
20	32	28	84.5	91.0
21	31	28	94.0	89.5
22	32	28	83.0	88.0
23	33	29	82.5	87.5

Table 5. Body weight and survival data

Week	<u>Saline</u>			
	Body weight - gms (average individual)		Survival - %	
	Male	Female	Male	Female
24	32	28	82.5	87.0
25	32	30	82.5	87.0
26	31	28	82.0	87.0
27	33	29	82.0	86.5
28	32	29	81.5	86.5
29	33	29	79.5	86.5
30	32	28	78.0	86.0
31	32	29	76.5	86.0
32	32	29	76.5	86.0
33	33	29	76.0	85.0
34	33	29	75.0	84.5
35	34	29	73.0	84.5
36	33	30	72	82.5
37	34	30	71	82.5
38	34	29	71	81.5
39	34	29	68.5	81.5
40	34	30	68.5	81.5
41	34	30	68.5	81.5
42	34	30	68.5	81
43	34	30	67.5	81
44	34	31	67.5	80.5
45	35	31	65	80.5
46	35	31	64.5	80

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Table 5. Body Weight and Survival Data

Week	Saline			
	Body weight (gms) (average individual)		Survival (%)	
	Male	Female	Male	Female
47	34	31	63	79.5
48	34	31	63	79.
49	35	32	62	78.5
50	34	31	60	78
51	36	31	59	78
52	35	31	57	77.5
53	35	31	56	76
54	35	31	56.5	75
55	35	31	54	74.5
56	35	31	53	72.5
57	35	31	52	72.5
58	35	31	50.5	71.5
59	34	31	50.5	70.5
60	35	31	49	69

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Table 6. Body weight and Survival Data

Week	Body weight (gms) (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
1	16	16	15	15	100	100	100	100
2	21	21	18	19	100	100	100	100
3	24	24	20	20	100	100	100	100
4	26	25	21	21	100	100	100	100
5	27	27	22	22	100	100	100	100
6	27	28	23	24	100	100	100	100
7	28	29	24	24	98	100	100	100
8	29	30	25	26	98	100	100	100
9	30	29	26	26	98	100	100	100
10	31	30	26	26	96	100	100	100
11	31	30	27	26	96	96	100	100
12	32	30	26	26	94	96	100	100
13	32	30	26	27	90	92	100	100
14	32	32	26	27	90	92	100	100
15	32	31	27	28	90	90	96	100
16	32	31	28	27	90	90	96	100
17	32	31	28	28	88	86	92	100
18	32	30	28	27	86	80	92	100
19	33	29	28	27	86	80	92	100
20	33	30	27	27	86	76	92	100
21	34	31	29	28	84	76	86	100
22	34	31	30	29	84	76	86	98
23	35	32	30	28	84	74	86	96

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Table 6 (continued) Body weight and survival data

Pyridine

Week	Body weight (gms) (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
24	29	31	30	28	80	74	86	96
25	34	31	30	28	80	74	86	96
26	28	31	30	27	76	74	86	96
27	33	30	28	28	76	72	86	96
28	28	31	28	26	76	72	86	96
29	34	31	29	27	74	68	86	94
30	28	31	29	26	74	68	86	94
31	34	30	28	27	72	68	86	88
32	28	31	28	26	72	68	86	88
33	35	31	29	28	72	68	82	88
34	29	32	29	28	72	68	82	88
35	36	32	29	28	72	68	82	88
36	36	32	29	28	72	68	82	88
37	35	32	30	29	70	68	80	88
38	35	32	30	28	70	66	80	88
39	34	32	30	29	70	66	80	88
40	35	32	30	29	70	66	80	88
41	35	32	29	29	68	66	80	86
42	36	32	29	29	68	66	80	86
43	35	33	29	29	66	66	76	86
44	36	34	29	30	66	66	76	86
45	36	34	30	30	66	66	74	86

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Table 6 (continued) Body Weight and Survival Data

Pyridine

Week	Body weight (gms) (average individual)				Survival			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
46	36	33	30	30	66	66	74	86
47	36	33	31	30	66	66	74	86
48	36	34	31	30	66	66	74	86
49	36	34	31	30	62	64	74	82
50	36	34	31	31	60	64	74	82
51	36	34	31	31	56	64	74	82
52	36	34	31	31	56	64	74	82
53	36	34	31	31	54	64	72	82
54	36	34	31	31	54	64	70	82
55	36	34	31	31	48	64	68	82
56	36	34	31	31	48	64	68	82
57	36	34	31	31	48	60	68	82
58	35	33	31	30	48	58	66	82
59	36	34	31	31	48	58	66	80
60	35	33	31	30	48	58	66	78

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Table 7. Body weight and Survival Data
Ethylene Glycol

Week	Body weight (gms) (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
1	16	17	14	15	100	100	100	100
2	22	21	18	19	100	100	100	100
3	24	26	22	20	100	100	100	100
5	27	27	23	22	100	100	100	100
6	28	28	24	23	100	100	100	100
7	29	29	25	24	100	100	100	100
8	30	30	25	24	100	100	98	100
9	30	30	26	25	100	100	98	100
10	30	31	26	25	100	100	98	100
11	30	31	26	25	100	100	98	100
12	30	31	26	26	100	100	98	100
13	32	32	26	25	98	100	98	98
14	32	32	26	25	96	100	98	96
15	32	31	26	25	96	100	98	96
16	32	31	26	26	94	98	96	94
17	32	30	26	26	--	94	96	94
18	32	30	27	26	94	92	92	94
19	32	30	26	25	94	90	92	94
20	32	31	27	26	94	86	92	94
21	33	32	27	--	94	86	92	94
22	35	31	--	27	92	84	92	92
23	34	33	28	28	92	84	90	92

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Table 7. Body weight and survival data
Ethylene Glycol

Week	Body weight (gms) (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
24	35	31	--	27	92	82	90	92
25	34	34	28	27	92	82	90	92
26	35	31	25	27	92	82	88	85
27	34	34	27	28	92	80	86	85
28	35	33	27	27	90	80	86	85
29	34	35	27	28	88	78	84	85
30	35	33	27	27	84	76	84	85
31	34	35	28	29	82	74	84	83
32	35	33	26	28	80	74	82	83
33	34	35	29	29	78	74	82	83
34	35	33	26	28	78	62	82	83
35	35	35	28	28	78	62	80	83
36	35	33	27	28	78	62	80	83
37	35	35	28	29	76	62	80	83
38	35	33	26	28	76	62	80	83
39	34	34	29	28	72	62	80	83
40	35	33	27	29	72	62	80	83
41	34	35	29	29	72	62	78	80
42	35	34	28	30	72	62	78	80
43	35	34	29	30	72	62	78	78
44	36	33	27	29	72	62	78	78
45	35	34	28	31	68	62	78	78

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Table 7 (continued) Body weight and survival data

Ethylene Glycol

Week	Body weight (gms) (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
46	36	34	28	30	68	62	78	78
47	35	34	30	32	68	62	78	78
48	35	36	29	30	68	62	76	76
49	35	36	30	31	68	62	76	76
50	35	36	30	30	66	62	76	76
51	35	36	30	30	66	60	76	76
52	36	36	31	30	66	60	76	76
53	36	36	31	30	66	60	76	76
54	35	36	30	30	66	60	76	72
55	35	36	30	30	66	60	76	72
56	35	36	30	30	66	60	76	68
57	35	36	30	30	64	60	76	68
58	35	36	30	30	64	58	74	68
59	36	36	30	30	62	56	74	66
60	36	36	30	30	60	54	72	66

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Table 8. Body weight and Survival Data

2-Chlorethanol

Week	Body weight (ms) (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
1	16	19	15	16	100	100	100	100
2	21	23	18	20	100	100	100	100
3	24	25	20	22	100	100	100	100
4	25	26	21	23	98	100	100	100
5	26	28	22	23	98	100	100	100
6	27	29	23	24	98	100	100	100
7	28	30	24	25	98	100	100	100
8	29	31	24	26	98	100	100	100
9	29	31	25	26	96	100	100	98
10	29	31	25	27	96	100	98	98
11	30	31	25	28	96	100	98	98
12	30	31	25	27	96	98	98	98
13	30	32	26	28	96	96	98	98
14	31	32	26	28	96	94	98	98
15	31	32	26	28	96	94	98	98
16	31	31	26	28	96	94	98	98
17	31	32	27	28	96	92	98	98
18	31	32	27	28	96	92	92	98
19	31	34	27	30	94	92	92	98
20	31	35	28	30	90	90	92	98
21	30	33	27	28	88	90	92	98
22	33	35	27	28	88	90	92	98
23	32	34	28	29	86	90	92	98

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Table 8. Body weight and Survival Data (cont.)

2-Chlorethanol

Week	Body weight - gms (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
24	32	36	29	28	79	90	92	98
25	31	34	27	29	79	88	92	96
26	31	36	28	29	79	84	92	96
27	31	34	28	29	79	82	88	96
28	31	35	28	29	77	78	88	96
29	31	33	32	29	77	78	88	96
30	33	34	29	30	74	76	88	96
31	32	32	27	29	74	74	86	96
32	33	34	30	30	74	74	86	96
33	32	33	28	30	72	70	86	96
34	34	35	30	31	74	66	86	96
35	32	32	28	30	74	64	86	96
36	34	35	31	31	74	64	86	94
37	33	33	31	30	74	62	86	94
38	34	33	31	31	74	60	86	92
39	33	35	31	31	72	60	86	90
40	34	33	31	32	70	60	86	90
41	32	34	31	31	68	60	86	90
42	34	33	31	32	66	60	86	90
43	33	33	33	31	66	60	86	90
44	33	33	32	32	66	60	86	90
45	33	34	33		66	60	86	

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Table 8 (continued) Body weight and survival data

2-Chlorethanol

Week	(average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
46	33	33	32	32	62	60	86	90
47	33	34	33	32	62	60	86	90
48	34	34	33	33	60	60	84	88
49	33	34	32	32	58	60	84	88
50	35	35	34	34	58	60	84	88
51	33	35	30	34	55	58	84	88
52	34	34	31	33	55	58	84	88
53	34	34	30	33	53	58	84	88
54	35	35	32	33	53	58	84	88
55	35	35	32	34	51	58	84	88
56	35	35	32	33	51	58	80	88
57	35	35	32	33	51	58	80	88
58	35	35	33	32	51	58	80	88
59	36	35	32	33	49	58	78	88
60	35	35	32	32	49	56	78	88

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Table 9. Body weight and Survival Data
Benzethonium Chloride

Week	Body weight (ms) (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
1	17	18	17	15	100	100	100	100
2	21	21	20	18	100	100	100	100
3	24	24	22	20	100	100	100	100
4	26	27	23	21	100	100	100	100
5	27	28	24	22	100	100	100	100
6	29	29	25	23	100	100	100	100
7	30	29	26	24	98	100	98	98
8	30	29	27	25	98	100	98	98
9	30	29	26	26	98	98	98	98
10	30	28	26	26	98	96	98	98
11	31	28	27	26	98	94	94	98
12	32	30	27	26	98	92	98	98
13	32	32	28	26	98	78	98	94
14	32	31	28	26	98	78	98	94
15	32	32	28	25	98	76	98	94
16	32	31	28	25	98	74	98	92
17	31	30	27	26	98	74	96	88
18	31	28	27	25	98	72	96	88
19	33	30	28	26	94	68	94	86
20	35	30	30	26	92	68	94	84
21	32	33	28	28	92	66	94	84
22	34	33	29	28	88	64	94	82
23	32	33	28	28	88	64	94	82

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Table 9. Body weight and Survival Data (cont.)

Benzethonium chloride

Week	Body weight - gms (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
24	33	29	28	28	88	62	84	82
25	32	33	26	27	86	62	84	80
26	33	29	28	27	86	62	84	80
27	31	33	25	28	84	62	84	78
28	33	29	28	26	84	62	82	78
29	32	32	28	26	80	62	78	74
30	33	30	29	27	80	60	76	72
31	33	32	28	28	78	60	76	72
32	34	29	30	28	74	58	76	72
33	33	33	29	27	72	52	76	72
34	35	30	30	29	72	52	76	72
35	33	34	29	28	76	50	76	72
36	33	34	31	28	70	50	76	72
37	33	34	30	29	70	50	76	68
38	34	34	31	28	70	50	76	68
39	34	34	31	29	70	50	76	64
40	34	34	31	29	70	50	76	64
41	34	34	30	29	70	50	76	64
42	34	34	32	30	66	50	74	64
43	34	34	31	30	66	48	74	64
44	34	34	33	30	66	48	74	64
45	34	34	32	30	66	48	74	60

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Table 9 (continued) Body weight and survival Data

Benzethonium chloride

Week	Body weight (gms) (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
46	34	34	33	29	64	46	74	60
47	34	35	32	30	64	46	74	60
48	34	35	33	29	62	46	74	60
49	34	35	32	30	62	42	74	60
50	35	35	33	30	62	42	74	60
51	34	36	32	30	58	42	74	60
52	34	35	32	29	56	42	74	54
53	34	36	32	30	54	42	74	54
54	35	35	33	30	54	42	74	54
55	34	35	32	30	54	42	74	54
56	34	34	32	30	52	42	74	54
57	34	35	32	30	52	42	74	54
58	34	35	32	30	52	40	74	54
59	34	35	32	30	48	40	74	52
60	34	34	32	30	44	40	72	50

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Table 10. Body Weight and Survival Data
Phenol Red

Week	Body weight (gms) (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
1	17	19	16	17	98	100	100	100
2	22	23	19	20	98	100	100	100
3	24	24	21	21	98	100	100	100
4	25	26	22	22	98	100	100	100
5	26	27	23	23	98	100	100	100
6	27	28	24	25	98	100	100	100
7	28	29	25	26	98	100	98	100
8	28	29	25	26	98	100	96	100
9	28	30	26	26	98	100	96	100
10	29	30	26	26	98	100	96	100
11	29	31	25	27	98	98	94	100
12	29	31	25	27	98	98	94	98
13	31	31	26	28	96	98	92	98
14	31	31	26	28	96	96	92	98
15	32	32	28	28	96	96	90	98
16	33	32	28	28	94	90	90	98
17	32	32	28	27	92	90	90	98
18	31	32	26	26	92	90	88	98
19	32	32	26	27	92	90	88	98
20	32	32	25	27	92	90	88	98
21	31	33	26	--	88	86	86	96
22	33	33	25	27	88	86	83	94
23	33	33	25	28	86	82	83	94

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Table 10. Body weight and survival data (continued)
Phenol Red

Week	Body weight (gms) (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
24	32	33	27	27	86	76	83	94
25	33	33	25	29	84	76	83	94
26	34	33	28	28	82	76	83	94
27	33	32	26	30	82	72	83	94
28	34	33	29	28	82	66	83	94
29	31	32	27	30	78	64	83	94
30	32	33	29	29	76	64	83	94
31	31	33	27	31	74	60	83	94
32	33	33	29	28	72	60	83	92
33	31	33	28	31	72	60	81	92
34	34	34	30	29	70	60	81	92
35	33	34	28	31	70	60	81	92
36	35	34	29	30	68	60	81	92
37	34	34	27	31	68	60	81	92
38	35	34	29	32	68	60	81	92
39	33	33	28	31	68	60	81	92
40	34	34	30	30	66	70	81	92
41	33	34	28	32	66	60	81	92
42	34	34	30	31	64	60	81	88
43	33	34	29	33	64	60	81	88
44	35	35	31	32	60	60	79	88
45	34	35	30	33	60	60	79	88

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Table 10 (continued) Body weight and survival data

Phenol Red

Week	(average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
46	34	36	31	32	60	60	79	86
47	34	35	29	34	60	60	79	84
48	36	35	31	33	58	60	77	82
49	35	35	30	34	52	60	77	82
50	36	36	31	33	50	60	77	82
51	35	36	32	33	50	58	77	82
52	36	37	33	33	50	58	77	82
53	35	35	33	33	50	58	77	82
54	35	34	34	33	50	58	77	82
55	35	35	33	33	46	56	77	82
56	36	35	33	33	42	56	77	78
57	35	35	33	33	40	54	77	78
58	35	34	33	33	38	54	77	78
59	35	34	33	33	38	52	77	78
60	35	33	33	33	36	52	75	76

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Table 11. Body Weight and Survival Data
Thimerosal, N. F.

Week	Body weight (gms) (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
1	16	16	15	16	100	100	100	100
2	21	21	19	18	100	100	100	100
3	23	24	21	20	100	100	100	100
4	26	25	23	21	100	100	100	100
5	27	27	23	22	100	100	100	100
6	28	27	24	23	100	100	100	100
7	29	27	25	24	100	100	98	98
8	30	28	26	25	100	100	98	98
9	33	27	27	25	100	100	98	98
10	31	27	27	25	100	100	98	98
11	31	26	27	25	100	100	96	98
12	31	26	27	25	100	96	96	98
13	31	26	26	26	100	88	96	96
14	32	27	26	26	100	86	96	96
15	32	27	28	25	100	84	92	96
16	32	27	28	25	98	84	90	96
17	32	27	28	26	98	84	90	94
18	32	28	28	26	96	82	90	94
19	32	29	29	26	96	82	90	94
20	32	28	29	26	96	82	88	94
21	33	29	29	26	96	82	84	92
22	34	29	29	27	96	82	84	88
23	34	29	28	25	96	82	84	88

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Table 11. Body weight and survival data (continued)
Thimerosal, N. F.

Week	Body weight (gms) (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
24	34	29	31	29	96	82	84	88
25	33	29	28	25	92	82	84	88
26	32	30	30	29	92	82	84	88
27	33	29	29	26	92	82	84	88
28	32	30	31	29	92	82	84	88
29	33	30	29	26	92	82	84	88
30	33	29	30	29	90	82	84	88
31	33	30	31	26	90	82	84	88
32	33	31	31	28	90	82	84	88
33	33	30	30	27	90	82	84	88
34	32	30	31	27	90	82	84	86
35	34	30	29	26	90	82	84	84
36	32	30	31	28	90	82	84	84
37	34	30	30	28	88	82	84	84
38	34	30	30	29	84	82	84	82
39	34	30	31	29	84	82	82	82
40	33	30	31	30	84	82	80	82
41	34	31	33	30	82	78	80	82
42	34	31	31	30	74	76	80	82
43	35	31	32	30	74	74	80	80
44	33	30	31	30	72	74	74	80
45	35	31	33	30	72	74	74	80

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Table 11 (continued) Body weight and survival data

Thimerosal, N. F.

Week	(average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
46	35	31	32	29	70	74	74	80
47	36	31	32	29	70	74	74	80
48	35	31	32	30	70	66	72	80
49	35	31	32	30	68	64	72	80
50	35	31	32	30	68	64	70	80
51	35	30	32	30	68	64	70	80
52	35	31	33	29	68	62	70	80
53	35	31	33	30	68	60	70	80
54	35	31	33	29	66	60	68	80
55	35	31	33	29	66	60	68	80
56	35	31	33	29	66	60	68	78
57	35	31	33	30	66	60	66	78
58	35	31	33	29	64	60	66	78
59	35	31	33	30	62	60	66	78
60	35	31	33	29	60	60	66	78

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Table 12. Body Weight and Survival Data
Methyl Parasept

Week	Body weight (gms) (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
1	18	18	16	16	100	100	100	100
2	22	22	20	20	100	100	100	100
3	24	24	22	22	100	100	100	100
4	26	26	22	22	100	100	100	100
5	27	27	24	23	100	100	100	100
6	28	28	24	25	100	100	100	100
7	29	29	25	25	93	100	100	100
8	30	30	26	26	98	100	100	100
9	30	31	27	26	93	100	100	100
10	30	31	27	27	98	100	100	100
11	31	31	28	27	96	100	100	100
12	31	32	28	27	96	100	100	100
13	32	31	28	27	96	100	100	100
14	32	32	28	28	96	100	100	100
15	33	32	29	28	96	100	100	100
16	33	32	28	27	96	100	100	100
17	32	33	29	27	96	100	100	100
18	33	33	28	27	96	100	100	100
19	32	33	28	27	96	94	100	98
20	33	33	29	27	96	94	100	98
21	33	33	28	28	94	92	100	98
22	33	33	29	29	94	92	96	98
23	33	33	28	30	92	92	96	

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Table 12. Body weight and survival data

Methyl Parasept

Week	Body weight (gms) (average individual)				Survival (%)			
	Male		Female		Male		High	
	Low	High	Low	High	Low	High	Low	High
24	33	32	29	26	92	92	96	98
25	34	33	28	29	92	92	96	98
26	33	33	28	25	90	90	96	96
27	34	34	28	28	88	88	96	96
28	34	33	28	25	86	88	96	96
29	34	33	29	28	84	88	93	94
30	34	34	29	26	84	88	93	92
31	34	33	28	29	81	88	93	82
32	34	34	29	26	80	88	93	82
33	33	32	29	28	80	86	91	80
34	34	35	29	27	80	86	91	72
35	35	33	29	31	80	86	89	72
36	35	34	30	28	80	82	89	72
37	34	34	30	28	80	80	89	72
38	35	33	30	29	78	80	89	72
39	34	34	30	29	78	80	89	70
40	36	33	30	29	78	80	89	70
41	34	34	31	29	78	80	89	70
42	36	34	31	29	74	80	89	70
43	35	35	32	29	74	80	89	70
44	36	35	32	29	72	78	89	70
45	35	35	31	29	70	78	87	68

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Table 12 (continued) Body weight and survival data

Methyl parasept

Week	Body weight (gms) (average individual) -				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
46	36	35	31	29	70	78	87	68
47	35	35	32	29	68	78	87	68
48	36	35	32	29	62	78	87	68
49	35	34	32	30	60	76	87	66
50	36	35	32	30	60	74	87	66
51	35	35	32	31	58	72	87	66
52	35	35	32	32	56	70	87	66
53	35	35	32	32	56	70	87	66
54	35	35	32	33	56	68	87	66
55	35	35	32	32	56	68	87	66
56	35	35	32	32	56	66	87	66
57	35	35	32	31	56	66	85	66
58	35	35	32	32	54	66	85	66
59	35	35	32	31	54	66	83	64
60	35	35	32	30	48	64	83	62

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Table 13. Body Weight and Survival Data

1, 2, 5, 6 Dibenanthracene in corn oil

Week	Body weight (gms)				Survival (%)			
	(average individual)							
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
1	17	18	15	16	100	100	100	100
2	21	22	19	19	100	100	100	100
3	24	24	21	21	100	100	100	100
4	26	26	22	22	100	100	100	100
5	27	28	23	23	100	100	100	100
6	28	29	24	24	100	100	100	100
7	29	29	24	24	100	100	98	100
8	29	30	25	25	100	100	98	100
9	29	30	26	26	100	100	98	100
10	30	30	26	26	100	100	98	100
11	31	31	26	26	100	100	98	100
12	31	32	26	27	98	100	98	100
13	32	33	27	28	98	100	96	98
14	32	33	27	28	98	100	94	98
15	33	34	28	28	98	100	94	96
16	33	34	28	28	98	96	94	96
17	33	34	27	29	98	96	94	88
18	33	34	28	28	96	96	92	86
19	33	35	27	28	96	96	86	86
20	32	35	27	27	94	92	78	84
21	34	35	27	28	90	90	76	82
22	34	35	28	27	86	84	70	80
23	34	34	28	28	84	84	70	68

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Table 13. Body weight and survival data (continued)

1, 2, 5, 6 Dibenanthracene in corn oil

Week	Body weight (gms) (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
24	34	34	28	27	80	80	70	68
25	34	34	28	27	78	78	70	68
26	34	36	27	26	74	70	70	66
27	34	35	28	28	74	70	70	58
28	32	36	28	25	74	68	70	58
29	34	34	29	27	70	68	70	58
30	27	35	28	26	70	66	70	58
31	34	35	29	27	68	56	70	56
32	28	36	28	27	66	56	70	56
33	34	35	29	29	64	54	70	52
34	32	36	30	26	62	54	70	52
35	35	36	30	28	62	50	70	52
36	35	35	30	27	62	48	68	52
37	33	36	31	28	62	44	68	52
38	35	36	31	28	62	44	68	52
39	34	37	31	28	56	42	68	52
40	34	37	31	28	56	40	68	52
41	34	37	31	29	54	40	68	52
42	36	37	32	30	54	38	68	52
43	35	36	31	30	54	36	64	52
44	36	36	31	30	54	36	64	52
45	35	37	32	30	54	36	64	52

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Table 13 (continued) Body weight and survival data

1, 2, 5, 6 Dibenzanthracene in corn oil

Week	Body weight (gms) (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
46	36	36	33	29	54	36	64	52
47	35	36	32	31	52	36	62	52
48	36	37	32	30	52	36	62	52
49	36	36	33	30	52	36	60	52
50	35	36	32	29	52	36	60	52
51	36	36	31	31	52	34	60	52
52	35	36	31	31	50	34	60	52
53	36	36	32	31	48	34	60	52
54	36	36	33	31	46	34	58	50
55	36	36	33	31	46	34	58	50
56	36	36	32	31	46	34	58	48
57	36	36	33	31	46	34	58	48
58	36	36	32	31	46	32	58	48
59	36	36	32	31	46	32	58	44
60	36	36	32	31	46	32	58	44

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Table 14. Body Weight and Survival Data
1, 2, 5, 6 Dibenanthracene in saline

Week	Body weight (gms) (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
1	11	16	15	14	100	100	100	100
2	19	20	18	18	100	100	100	100
3	22	23	20	19	100	100	100	100
4	24	25	21	20	100	100	100	100
5	26	27	22	22	100	100	100	98
6	27	28	24	23	100	100	100	98
7	27	28	24	23	100	100	100	98
8	27	28	25	24	100	98	100	98
9	27	28	25	25	96	96	100	96
10	29	28	25	25	92	92	100	96
11	31	29	26	25	90	92	100	96
12	32	30	27	26	88	92	100	96
13	31	30	26	26	88	88	100	96
14	33	30	28	27	88	83	100	96
15	30	31	26	27	86	86	100	96
16	30	31	26	27	86	86	100	96
17	31	31	26	26	86	86	100	96
18	31	31	27	29	86	86	100	96
19	33	32	27	29	86	86	100	96
20	30	31	27	28	84	82	96	96
21	34	31	28	29	82	78	93	96
22	31	32	24	27	82	76	93	96
23	34	32	28	29	82	76	93	96

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Table 14. Body weight and survival data

1, 2, 5, 6 Dibenanthracene in saline

Week	Body weight (gms) (average individual)				Survival (%)			
	Male		Female		Male		High	
	Low	High	Low	High	Low	High	Low	High
24	31	32	24	26	80	74	93	94
25	35	32	29	29	80	74	91	94
26	32	33	25	27	78	72	91	92
27	35	31	31	28	78	72	91	92
28	32	33	26	28	76	72	89	92
29	34	31	30	30	74	72	89	92
30	32	33	26	28	74	72	89	92
31	35	32	29	30	72	72	87	92
32	32	33	25	27	68	70	87	92
33	35	33	30	30	68	70	84	92
34	33	34	27	28	68	63	80	92
35	35	32	31	30	68	68	80	92
36	33	33	27	29	66	68	80	92
37	34	32	29	31	66	66	80	92
38	34	33	30	30	62	64	80	92
39	35	34	30	31	62	64	78	90
40	34	34	29	30	62	64	78	90
41	35	33	30	32	62	60	78	90
42	35	33	30	31	60	60	76	90
43	35	33	30	30	60	60	76	90
44	34	34	29	30	58	60	76	90
45	36	33	30	31	54	60	76	90

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Table 14 (continued) Body weight and survival data

1, 2, 5, 6 dibenzanthracene in saline

Week	Body weight (gms) (average individual)				Survival (%)			
	Male		Female		Male		Female	
	Low	High	Low	High	Low	High	Low	High
46	35	33	30	30	54	60	72	90
47	36	34	31	31	54	60	72	88
48	35	35	30	31	52	60	72	86
49	36	33	30	31	52	60	70	86
50	35	35	30	32	50	56	70	86
51	35	34	30	32	50	54	70	86
52	35	35	30	32	48	54	70	86
53	35	34	30	32	46	54	70	86
54	35	35	30	32	46	54	70	86
55	34	35	30	31	44	52	70	86
56	34	35	30	32	44	52	68	86
57	34	35	30	31	42	52	68	86
58	34	35	30	31	40	52	68	86
59	34	35	30	31	40	52	68	86
60	34	35	30	31	40	52	68	86

Table Explanation

Tables 15 through 51
Titled "Fate of Mice and Incidence of Neoplasm"

Table No.

Fate of Mice⁽¹⁾ and Incidence of Neoplasm

Group identification

<u>Animal Number</u> (2)	<u>Fate</u> (3)	<u>Weeks on test</u> (4)	<u>Tissue collected</u> (5)	<u>Neoplasm observed</u> (6)	
				Gross (location)	Histologic (type)

- (1) This set of tables covers only animals which died on test.
- (2) Animal Number denotes the number assigned to each animal at the time they were weaned. Each weanling was identified by ear notches and assigned an identification number. An * asterick by the animal number indicates the animal was one selected at random for histologic examination of tissue at termination. Tissues scheduled for examination included lung, heart, liver, spleen, gonad, uterus (female), kidney and site of injection.
- (3) Fate denotes what happened to the animal according to the following code:
d - died, found dead in cage and at least examined grossly
c - cannibalized; found missing from cage and no gross examination
k - killed because of moribund condition, large tumor or other condition that indicated mouse could die in the next few days.
- (4) Weeks on test is also the age of the animal at time of death since treatment was applied within 24 hours of birth.
- (5) Tissues collected denotes the handling of tissues in terms of collection and fixing for histologic examination. In the original contract and through the first portion of the experiment only grossly observed suspected neoplasms were collected and fixed for histologic examination. With the increased mortality in the first half of the study and in an effort to obtain more material for histologic examination, all animals which did not show advanced autolysis were placed (whole body) in fixative. The following code identifies the tissues collected:
N - None; S - Single tissue, abnormal or suspected tumor; T - Total animal
- (6) Neoplasms observed
Gross (location) Any enlargement or abnormality which could be suspected of being neoplastic was noted and location given. Notation was made only where suspected neoplasm was observed.
Histologic (type) Observations are noted with regard to neoplasms only and a notation made in all cases where histologic examination made whether a tumor was present or not.

Type of tumor is noted and also location if information not noted in "Gross (location)" column. If suspected gross tumor was shown by histology to not be neoplastic, this is noted and explained.

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Table 15

Fate of Mice and Incidence of Neoplasm

Negative Control - Males

Animal Number	Fate ⁽¹⁾	Weeks on test	Tissues ⁽²⁾ collected	Neoplasms Observed	
				Gross (location)	Histologic (type)
5032	d	8	N		
5016	d	9	N		
5033	d	10	S		
4896	d	12	N		
4926	d	12	S		
4927	d	12	N		
5017	d	13	N		
4925	d	13	S		
4955	d	14	N		
4916	d	14	S		
4857	d	14	S		
4890	d	14	S		
5015	d	14	N		
4905	d	15	N		
4972	d	15	S		
4974	d	15	N		
4884	d	15	S		
5027	d	15	N		
5010	d	16	N		
5013	d	16	N		
4971	d	16	N		
4973	d	17	N		
4938	d	17	N		
4848	d	18	N		
4871	d	18	N		
4901	d	18	N		
4900	d	18	N		
4950	d	20	N		
4880	d	20	N		
4881	d	20	N		
4847	d	20	N		
5041	d	21	N		
4984	d	21	N		
4893	d	22	N		
5000	d	23	N		
4865	d	25	N		
5001	d	25	N		
4949	d	28	N		
4875	d	29	N		
4878	d	29	N		
4911	d	29	N		
4920	d	29	N		

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Table 15 (continued)

Fate of Mice and Incidence of Neoplasm

Negative control - Mice

Animal Number	Fate ⁽¹⁾	Weeks on test	Tissues ⁽²⁾ collected	Neoplasms observed	
				Gross (location)	Histologic (type)
4851	d	31	N		
4852*	d	31	N		Negative
4850	d	33	N		
4915	d	33	N		
4892	d	34	N		
4846	d	35	N		
4954	k	35	N		
4864	k	35	N		
4889	d	35	N		
5007	c	36	N		
5019	d	36	N		
4869	k	37	N		
4872	k	37	N		
4876	d	37	N		
4914	k	37	T		
4921*	k	37	T		Negative
4867	d	37	N		
4862	d	39	N		
4845	d	39	N		
4924	d	43	N		
5037	c	43	N		
5044	k	43	N		
5042	c	45	N		
4913	d	45	T		
4853	d	45	N		
4854*	k	45	T		Negative
4988	k	46	N		
4877*	d	47	N		Negative
4863*	k	47	T		Negative
4873*	k	47	T		Spleen & kidney
5043*	k	47	T		lymphoma
5005 *	k	48	T		Spleen lymphoma
5040	d	48	N		Negative
4970	d	48	T		
4859	d	49	N		
5008	d	49	N		
4976	d	50	N		
5002*	d	51	T		Negative
4951	d	51	T		
4860	d	52	T		
5028	d	52	N		
4899	d	50	N		Not neoplastic
5031*	k	53	T	Subcutaneous	Subcutaneous ab

cases

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Table 15 (continued)

Fate of Mice and Incidence of Neoplasm

Negative control - Mice

Animal Number	Fate ⁽¹⁾	Weeks on test	Tissues ⁽²⁾ collected	Neoplasms observed	
				Gross (location)	Histologic (type)
4888	d	61	N		
4956	d	53	N		
4997*	k	54	T		Negative
4948	d	56	T		
4963	d	56	N		
4894*	d	57	T		Negative
4983*	d	56	T		Negative
4952	d	53	T		
4887	d	62	N		
5006	d	58	T	Lung	Extensive pneumonia
4977	d	58	T		
4879	d	59	T		
028	d	55			
4862*	d	61	T		Negative
4868*	k	61	T	Subcutaneous	Not neoplastic, granu- loma
4874*	d	61	T		Lymphoma of spleen, hepatitis
5009*	d	60	T		Negative
4932*	d	62	T	Lung	Not neoplastic, chronic pneumonia

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Table 16

Fate of Mice and Incidence of Neoplasm

Negative control - Females

Animal Number	Fate (1)	Weeks on test	Tissues (2) collected	Neoplasms observed	
				Gross(location)	Histologic (type)
5195	d	5	N		
5196	d	5	N		
5129	d	11	S		
5211	d	11	N		
5140	d	12	S		
5118	d	14	S		
5144	d	14	N		
5049	d	15	S		
5058	d	15	N		
5120	d	15	N		
5232	d	16	N		
5161	d	16	N		
5143	d	16	N		
5117	d	18	N		
5073	d	19	N		
5074	d	19	S		
5220	d	20	N		
5047	d	20	N		
5201	d	22	N		
5207	d	22	N		
5216	c	22	N		
5218	c	22	N		
5190	d	22	N		
5219	d	23	N		
5069	d	23	N		
5187	d	24	N		
5200	d	26	N		
5131*	c	32	N		
5099	d	33	N		Negative
5046	d	35	S		
5051	d	35	T		
5052	d	35	N		
5204	d	36	N		
5221	c	36	N		
5212*	d	38	T		Negative
5058	d	39	N		
5213*	d	42	T		Negative
5209*	d	44	T		Negative
5086	d	46	N		
5065	d	47	N		

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Table 16 (continued)

Fate of Mice and Incidence of Neoplasm

Negative control - females

Animal Number	Fate (1)	Weeks on test	Tissues (2) collected	Neoplasms observed	
				Gross (location)	Histologic (type)
5194	d	48	N		
5231	d	49	N		
5224	d	49	N		
5084	d	50	N		
5188 *	k	52	T		Lymphomatous kidney, not neoplastic
5147*	k	53	T	Subcutaneous	Subcutaneous abscess
5106*	d	51	T	Kidney	Cystic nephritis
5093*	d	52	T		Mixed adenoma & adeno- of lung; lymphoma of splee
5141	d	54	S		
5214*	k	56	T		Negative
5139	d	56	T		
5198*	d	58	T	Lung	Extensive pneumonia, not neoplastic
5068*	d	63	T		Negative
5199 *	d	56	T	Lung	Not neoplastic, abscess
5072	d	65	T	Lung	
5067*	d	65	T		Negative

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Table 17

Fate of Mice and Incidence of Neoplasm

Pyridine - low level - males

Animal Number	Fate ⁽¹⁾	Weeks on test	Tissues ⁽²⁾ collected	Neoplasms observed	
				Gross (location)	Histologic (type)
5975	d	7	N		
5971	d	10	S		
5946	d	12	S		
5944	d	13	N		
5964	d	13	S		
5945	d	17	S		
5974	d	18	N		
5957	d	23	N		
5931	d	24	N		
5933	d	24	N		
5930	d	25	N		
5929	d	25	N		
5977*	k	29	T		Negative
5936	d	31	T		
5968*	d	37	T		Negative
5943*	d	41	T		Negative
5939*	d	43	T		Spleen & subc. lympho- sarcoma
5966	d	49	N		
5963	d	49	N		
5962*	d	50	T		Negative
5934*	k	55	T		Negative
5937*	k	55	T	Lung	Lung abscess
5976*	d	49	T	Kidneys neoplastic	Nephritis & granulation
5970*	d	50	T	Lung	Lung abscess
5961	k	51	T		
5960*	k	55	T		Negative

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Table 18

Fate of Mice and Incidence of Neoplasm

Pyridine - low level - females

Animal Number	Fate ⁽¹⁾	Weeks on test	Tissues ⁽²⁾ collected	Neoplasm observed	
				Gross (location)	Histologic (type)
5997	d	15	N		
6005	d	15	N		
5980	d	17	N		
5995	d	17	N		
6006	d	18	N		
5989	d	21	N		
5993	d	21	N		
6004	k	33	N		
6007*	k	33	T		Negative
5992*	d	37	T		Not neoplastic; lung abscess
6015	d	43	N		
6016	d	43	N		
6017	d	45	N		
6003	d	49	N		
6021*	d	53	T		Negative
5983*	d	53	T		Negative
5994	d	58	T		
5979*	d	63	T	Lung	Not neoplastic; lung abscess
6027	d	61	T		

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Table 19

Fate of Mice and Incidence of Neoplasm

Pyridine - high level - males

Animal Number	Fate ⁽¹⁾	Weeks on test	Tissues ⁽²⁾ collected	Neoplasm observed	
				Gross (location)	Histologic (type)
5870	d	11	S		
5869	d	12	S		
5868	d	12	S		
5845	d	13	S		
5843	d	15	N		
5831	d	17	N		
5836	d	17	N		
5840	d	17	N		
5855	d	18	N		
5856	d	18	N		
5860	d	18	N		
5838	d	20	N		
5867	d	20	N		
5835	d	23	N		
5851	d	29	N		
5853	d	29	N		
5877	d	38	N		
5852	d	49	N		
5861*	k	59	T		Spleen, lymphomatous
5849*	k	59	T		Urinary bladder, fibroma
5874	d	58	N		

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Table 20

Fate of Mice and Incidence of Neoplasm

Pyridine - high level - females

Animal Number	Fate ⁽¹⁾	Weeks on test	Tissues ⁽²⁾ collected	Neoplasm observed	
				Gross (location)	Histologic (type)
5891	d	23	N		
5904	d	23	N		
5887	d	29	N		
5886	d	30	N		
5913	d	31	N		
5884	d	33	N		
5922*	d	41	T		Lymphoma of liver, spleen, kidney, uterus, LN
5918	d	49	N		
5924	d	49	N		
5905	d	59	N		
5893*	d	63	T		Negative
5882*	d	63	T		Negative

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Table 21

Fate of Mice and Incidence of Neoplasm

Ethylene glycol - low level - males

Animal Number	Fate ⁽¹⁾	Weeks on test	Tissues ⁽²⁾ collected	Neoplasm observed	
				Gross (location)	Histologic (type)
6691	d	13	N		
6693	d	13	S		
6695	d	14	S		
6692	d	22	N		
6715	d	28	N		
6711	d	29	N		
6712	d	30	N		
6701	d	31	N		
6673	d	31	N		
6714	d	32	N		
6702	d	33	N		
6682	d	37	N		
6686	d	39	N		
6688	d	39	N		
6704	d	45	N		
6671	d	45	N		
6676	d	49	N		
6703*	k	57	T		Negative
6675*	d	63	T		Negative

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Table 22

Fate of Mice and Incidence of Neoplasm

Ethylene glycol - low level - females

Animal Number	Fate ⁽¹⁾	Weeks on test	Tissues ⁽²⁾ collected	Neoplasms observed	
				Gross (location)	Histologic (type)
6741	d	8	N		
6725	d	16	S		
6723	d	18	S		
6749	d	18	N		
6724	d	19	N		
6767	d	23	N		
6760	d	25	N		
6769	d	26	N		
6758	c	29	N		
6766*	d	32	T		Lung abscess & granuloma
6730	d	35	N		
6731	d	41	N		
6728*	d	49	T		Hemangioma ovary & lung
6770*	d	58	T	Lung	Abscess in pleural cavity
6754*	d	59	T		Negative

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Table 23

Fate of Mice and Incidence of Neoplasm

Ethylene glycol - high level - males

Animal Number	Fate ⁽¹⁾	Weeks on test	Tissues ⁽²⁾ collected	Neoplasms observed	
				Gross (Location)	Histologic (type)
6029	d	16	N		
6030	d	17	N		
6046	d	17	N		
6061	d	18	N		
6033	d	19	N		
6036	d	20	N		
6068	d	20	N		
6060	d	22	N		
6032	d	24	N		
6065	d	27	N		
6045	k	28	N		
6067	d	31	N		
6051	d	34	N		
6074	d	34	N		
6075	d	34	N		
6076	d	34	N		
6077	d	34	N		
6078	d	34	N		
6053 *	d	50	T		Negative
6035 *	d	61	T		Negative
6043 *	d	61	T		Negative
6048 *	d	60	T		Negative
6063	d	61	T		

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Table 24

Fate of Mice and Incidence of Neoplasm

Ethylene glycol -high level - females

Animal Number	Fate ⁽¹⁾	Weeks on test	Tissues ⁽²⁾ collected	Neoplasms observed	
				Gross (location)	Histologic (type)
6105	d	13	S		
6080	d	14	S		
6107	d	16	N		
6084	d	18	N		
6106	d	22	N		
6079	d	23	N		
6095	d	25	N		
6085	d	31	N		
6125	d	41	N		
6090	d	43	N		
6102	d	50	T		
6110*	d	51	T		Negative
6109*	d	51	T		Lymphomatous infiltration of lung with necrosis
6113	d	54	T		
6094*	k	57	T	Lung	Not neoplastic; lung abscess
6108*	k	57	T	Subcu	Squamous cell carcinoma
6098*	d	60	T		Negative

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Table 25

Fate of Mice and Incidence of Neoplasm

2-Chlorethanol - low level - males

Animal Number	Fate ⁽¹⁾	Weeks on test	Tissues ⁽²⁾ collected	Neoplasms observed	
				Gross (location)	Histologic (type)
6906	d	4			
6893	d	19	N		
6889	d	20	N		
6880	d	20	N		
6894	d	21	N		
6909	d	23	N		
6895	d	24	N		
6892	d	24	N		
6885	d	24	N		
6915	d	28	N		
6907	d	30	N		
6898*	k	33	T		Lymphosarcoma, spleen
6899*	d	39	T		Negative
6917*	k	40	T		Negative
6878	d	41	N		
6903	k	42	N		
6904*	k	46	T		Negative
6877	d	49	N		
6882*	k	51	T		Lymphosarcoma
6914*	d	48	T	Lung	Extensive pneumonia
6902*	d	52	T	Lung	Lung abscess
6913*	d	57	T		Negative
6888*	d	59	T		Negative

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Table 26

Fate of Mice and Incidence of Neoplasm

2-Chlorethanol - low level - females

Animal Number	Fate (1)	Weeks on test	Tissues (2) collected	Neoplasms observed	
				Gross (location)	Histologic (type)
6922	d	17	N		
6930	d	18	N		
6931	d	18	N		
6948	d	18	S		
6943	d	27	N		
6945	c	27	N		
6951	d	48	N		
6928*	k	55	T		Hemangioma of ovary
6921*	d	55	T		Lymphosarcoma, liver & spleen

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Table 27

Fate of Mice and Incidence of Neoplasm

2-Chlorethanol - high level - males

Animal Number	Fate (1)	Weeks on test	Tissues collected (2)	Neoplasms observed	
				Gross (location)	Histologic (type)
6784	d	13	N		
6792	d	13	S		
6819	d	14	S		
6785	d	17	N		
6776	c	20	N		
6780	d	25	S	Skin	Hyperkeratosis, sheath of p
6813	d	26	N		
6811	d	26	N		
6809	c	27	N		
6812	d	28	N		
6779	d	28	N		
6814	k	30	N		
6778	d	31	N		
6786	d	33	N		
6787*	d	33	T		Negative
6800	d	34	N		
6796	d	34	N		
6788	c	35	N		
6789	d	35	N		
6793	d	38	N		
6797*	d	50	T	Lung neoplasm	Lung adenoma
6772*	d	63	T		Negative

- 72 -

- 63 -

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Table 28

Fate of Mice and Incidence of Neoplasm

2-Chlorethanol - high level - females

Animal Number	Fate ⁽¹⁾	Weeks on test	Tissues ⁽²⁾ collected	Neoplasms observed	
				Gross (location)	Histologic (type)
6847	d	9	N		
6860*	d	26	T		Negative
6830*	d	36	T	Hemangioma of intestine	Not neoplastic
6857*	d	36	T		Negative
6852*	d	38	T		Lymph sarcoma of spleen, kidney, liver and L.N.

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Table 29

Fate of Mice and Incidence of Neoplasm

Benzethonium - low level - males

Animal Number	Fate (1)	Weeks on test	Tissues (2) collected	Neoplasms observed	
				Gross (location)	Histologic (type)
7098	k	6	N		
7077	d	19	N		
7107	d	19	N		
7101	d	20	N		
7099	d	22	N		
7100	d	22	S		
7064	d	24	S		
7097	d	27	N		
7095	c	29	N		
7096	d	29	N		
7093*	k	29	T		Negative
7086	d	32	N		
7068	d	32	N		
111	d	36	N		
7109	d	42	N		
7110*	k	42	T		Negative
7112*	k	44	T		Negative
7063	d	48	N		
7088	d	50	N		
7078*	d	52	N		Negative
7090*	d	53	T		Negative
7085*	k	52	T	Kidney	Suppurative nephritis
7061*	d	54	T		Negative
7072*	d	60	T		Negative
7071*	d	60	T		Negative

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Table 30

Fate of Mice and Incidence of Neoplasm

Benzethonium - low level - females

Animal Number	Fate (1)	Weeks on test	Tissues (2) collected	Neoplasms observed	
				Gross (location)	Histologic (type)
7162	k	7	N		
7150	d	17	S		
7160	d	19	N		
7115	d	24	N		
7128	d	24	N		
7134	d	24	S		
7136	d	24	N		
7137	d	24	N		
7132	d	24	N		
7153	d	28	N		
7154	d	28	N		
7130	d	28	N		
7132	d	30	N		
7157*	k	42	T		Negative
7131*	d	60	T	Intestines	Hemangioma

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Table 31

Fate of Mice and Incidence of Neoplasm

Benzethonium - high level - males

Animal Number	Fate ⁽¹⁾	Weeks on test	Tissues ⁽²⁾ collected	Neoplasms observed	
				Gross (location)	Histologic (type)
7010	c	10	N		
7009	d	11	S		
7000	d	11	S		
7008	d	12	S		
7005	d	13	S		
7002	d	13	S		
6997	d	13	S		
6999	d	13	S		
6969	d	13	N		
6970	d	13	N		
6971	d	14	S		
7001	d	14	N		
13513	d	15	N		
7006	k	16	N		
6972	d	18	N		
6980	d	19	N		
6982	d	19	N		
6994	d	21	N		
6991	d	24	N		
13512	d	30	N		
13516	c	30	N		
6992*	k	32	T		Lymphomatous spleen
6989	k	33	T		
6990	d	33	N		
7003	c	35	N		
7004	d	43	N		
6998	d	46	N		
6993*	k	50	T		Negative
6984*	d	51	T		Negative
6976	d	59	N		
6996*	d	61	T		Negative

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Table 32

Fate of Mice and Incidence of Neoplasm

Benzethonium - high level - females

Animal Number	Fate ⁽¹⁾	Weeks on test	Tissues ⁽²⁾ collected	Neoplasms observed	
				Gross (location)	Histologic (type)
7047	d	5	N		
7036	d	13	S		
7019	d	13	S		
7048	d	16	N		
7062	d	17	N		
7046	d	17	N		
7058	d	18	N		
7027	d	20	N		
7023	d	22	N		
7021	d	24	N		
7057	d	27	N		
7054	d	29	N		
7039	d	29	N		
7059	d	31	N		
7034	d	37	N		
7016	c	37	N		
7013	d	45	N		
7028	d	45	N		
7044*	k	48	T		Negative
7015	d	49	N		
7025	c	51	N		
7022	d	52	N		
7024	d	53	N		
7031*	d	59	T		Negative
7026	d	59	T		Negative
7040	d	63	T	Lung	

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Table 33

Fate of Mice and Incidence of Neoplasm

Phenol Red - low level - males

Animal Number	Fate ⁽¹⁾	Weeks on test	Tissues ⁽²⁾ collected	Neoplasms observed	
				Gross (location)	Histologic (type)
6160	d	1	N		
6153	d	13	S		
6130	d	16	S		
6175	d	17	S		
6127	d	21	N		
6129	d	21	N		
6128	d	23	N		
6174	d	24	N		
6156	d	26	N		
6173	d	26	N		
6145	d	26	N		
6163	k	32	N		
6126	d	33	N		
6154	c	34	N		
6158	d	34	N		
6167*	d	42	T		Negative
6166	d	44	N		
6170*	d	44	T		Negative
6155	d	46	N		
6140*	d	49	T		Negative
6141*	d	49	T		Negative
6157*	d	49	T		Negative
6169*	d	50	T		Negative
6149	d	51	N		
6132	d	55	N		
6136*	d	55	T		Negative
6149	d	51	N		
6147	d	57	T		
6150*	d	59	T		Negative
6143	d	61	T		Negative
6135	d	65	T		
6137	d	60	T		

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Table 34

Fate of Mice and Incidence of Neoplasm

Phenol Red - low level - females

<u>Animal Number</u>	<u>Fate</u> ⁽¹⁾	<u>Weeks on test</u>	<u>Tissues</u> ⁽²⁾ <u>collected</u>	<u>Neoplasms observed</u>	
				<u>Gross (location)</u>	<u>Histologic (type)</u>
7308	d	7	S		
7284	d	9	S		
7268	d	10	N		
7291	d	13	S		
7265	d	15	S		
7264	d	18	N		
7274	d	18	N		
7267	d	21	N		
7287*	k	31	T		Negative
7288	d	44	N		
7294	d	50	N		

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Table 35

Fate of Mice and Incidence of Neoplasm

Phenol Red - high level - males

Animal Number	Fate (1)	Weeks on test	Tissues (2) collected	Neoplasms observed	
				Gross (location)	Histologic (type)
7209	c	11	N		
7167	d	14	N		
7194	d	16	N		
7196	d	16	N		
7212	d	16	N		
7182	d	22	N		
7172	d	22	N		
7165	d	23	N		
7175	d	23	N		
7178	c	24	N		
7186	d	24	N		
7173	d	25	N		
7174	d	25	N		
7176	d	25	N		
7168	d	27	N		
7181	d	27	N		
7188	d	27	N		
7179	d	29	N		
7183	d	31	N		
7192	d	31	N		
7205*	d	50	T		
7171	d	59	N		
7211	d	56	T		

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Table 36

Fate of Mice and Incidence of Neoplasia

Phenol Red - high level - females

Animal Number	Fate (1)	Weeks on test	Tissues collected (2)	Neoplasms observed	
				Gross (location)	Histologic (type)
7214	d	12	N		
7246	d	22	N		
7244*	d	30	T		Negative
7251	d	30	N		
7248	d	42	N		
7219*	d	44	T		Lymphomatous hyperplasia spleen
7221	d	48	N		
7241	d	48	N		
7238	k	49	T		
7261	d	56	N		
7279	d	60	N		
7252*	d	60	T		
7220*	d	61	T	Lung & uterus	Sarcoma; lung, liver, ova

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Table 37

Fate of Mice and Incidence of Neoplasm

Thimerosal, N.F. - low level- males

(2)

Animal Number	Fate (1)	Weeks on test	Tissues collected	Neoplasms observed	
				Gross (location)	Histologic (type)
6281	d	16	S		
6301	c	18	N		
6318	d	24	N		
6323	d	24	N		
6292	d	30	N		
6278*	d	32	T		Lymphomatous spleen
6293*	k	36	T		Lymphomatous spleen
6310	k	36	T		
6324	d	41	S		
6284	d	42	N		
6289	d	42	N		
6290*	d	42	T		Negative
6287	d	42	N		
6286	d	44	N		
6312*	d	46	T		Negative
6319	d	49	N		
6299*	d	53	N		Negative
6307	d	58	N		
6311	d	59	T		
6322	d	59	T		Not neoplastic
6285*	d	62	T	Lung	Not neoplastic abscess

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Table 38

Fate of Mice and Incidence of Neoplasm

Thimerosal, N.F. - low level - females

(2)

Animal Number	Fate (1)	Weeks on test	Tissues collected	Neoplasms observed	
				Gross (location)	Histologic (type)
6339	k	7	N		
6340	k	10	N		
6331	d	15	N		
6361*	d	16	N		Negative
6334	d	18	N		
6359	d	20	N		
6337	d	25	S		
6373	d	39	N		
6346	d	40	N		
6335	d	44	N		
6327	d	44	N		
6348	d	44	N		
6333*	k	48	T	Subcutaneous	Subcutaneous abscess & granulation
6353	d	50	N		
6336*	d	58	T		Negative
6364	d	56	S	Uterus	Abscess - possibly necrotic neoplasia
6371	d	56	T		

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Table 39

Fate of Mice and Incidence of Neoplasm

Thimerosal, N.F. - High level - males

Animal Number	Fate (1)	Weeks on test	Tissues collected (2)	Neoplasms observed	
				Gross (location)	Histologic (type)
6214	d	12	S		
6199	d	12	N		
6183	d	13	S		
6190	d	13	N		
6202	d	13	S		
6212	d	13	S		
6188	d	14	N		
6186	d	15	N		
6182	d	18	N		
6208	d	41	N		
6210	d	41	N		
6205	d	42	N		
6206	d	43	N		
6207	d	43	N		
6196	d	48	N		
6218	d	48	N		
6219	d	48	N		
6177	d	49	N		
6181	d	53	N		
6179*	d	55	T		Negative

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Table 40

Fate of Mice and Incidence of Neoplasms

Thimerosal, N.F. - high level - females

Animal Number	Fate (1)	Weeks on test	Tissues (2) collected	Neoplasms observed	
				Gross (location)	Histologic (type)
6252	d	7	N		
6274	d	13	N		
6247	d	17	N		
6243	k	21	N		
6226	d	22	N		
6229	d	22	N		
6231*	d	32	T		Negative
6275*	d	35	T	Lung	Lung abscess
6233	k**	38	N		
6239	d	43	N		
6232*	k	56	T	Subcutaneous	Sarcoma (fibro)
6227	d	63	N		

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Table 41

Fate of Mice and Incidence of Neoplasms

Methyl Parasept - low level - males

Animal Number	Fate (1)	Weeks on test	Tissues collected (2)	Neoplasms observed	
				Gross (location)	Histologic (type)
6506	d	7	N		
6507	d	11	S		
6477	d	21	S		
6490	d	23	N		
6496	d	26	N		
6486	d	27	N		
6475	d	28	N		
6482	c	28	N		
6488	d	31	N		
6499	d	32	N		
6491	d	38	N		
6494	d	42	N		
6501	k	42	N		
6498	d	44	N		
6504	d	45	N		
6502*	k	47	T		Early lung adenoma
6520	d	48	N		
6497	k	48	N		
6495	k	48	N		
6509*	d	49	T		Negative
6503*	d	51	T		Negative
6492	d	52	N		
6522*	k	54	T		Hyperplasia of spleen
6484*	d	62	T		Negative
6519	d	58	N		

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Table 42

Fate of Mice and Incidence of Neoplasms

Methyl Parasept - low level - females

Animal Number	Fate (1)	Weeks on test	Tissues collected (2)	Neoplasms observed	
				Gross (location)	Histologic (type)
6527	d	22	N		
6528	d	22	N		
6554	d	29	N		
6570	k	33	T		
6566*	k	35	T		Negative
6537	d	45	N		
6553*	k	58	T	Lung	No neoplasm on section
6569	d	58	T	Bladder	Negative

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Table 43

Fate of Mice and Incidence of Neoplasm

Methyl Parasept - high level - males

Animal Number	Fate (1)	Weeks on test	Tissues collected (2)	Neoplasms observed	
				Gross (location)	Histologic (type)
6387	d	19	N		
6396	d	19	N		
6398	d	19	N		
6415	d	27	N		
6401	d	21	N		
6421	d	26	N		
6406	d	33	N		
6382	d	36	N		
6383	d	37	N		
6380	d	38	N		
6384*	d	44	T		Negative
6419	d	49	N		
6397	d	51	N		
6399*	k	51	T		Skin papilloma
6385	d	52	N		
6413	d	55	S	Lung neoplasm	Suppurative pneumonia
6395*	k	56	T		Skin papilloma with necrosis
6402*	d	59	T	Lung	Adenoma & suppurative pneumonia

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Table 44

Fate of Mice and Incidence of Neoplasm

Methyl Parasept - high level - females

Animal Number	Fate ⁽¹⁾	Weeks on test	Tissues ⁽²⁾ collected	Neoplasms observed	
				Gross (location)	Histologic (type)
6461	d	19	N		
6439	d	25	N		
6448	d	29	N		
6436	d	30	N		
6442	k	31	N		
6443	k	31	N		
6444*	k	31	T		Negative
6445*	k	31	T		Negative
6446	d	31	N		
6447*	k	31	T		Negative
6425	d	32	N		
6457	d	33	N		
6464	d	33	N		
6426	c	34	N		
6449*	d	41	T		Negative
6450*	k	50	T		Negative
6433	d	45	N		
6454	d	58	N		
6472*	d	61	T		Negative
6450*	d	63	T	Uterus & liver	Sarcoma

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Table 45

Fate of Mice and Incidence of Neoplasm

Positive control - DBA in oil - low level - males

<u>Animal Number</u>	<u>Fate (1)</u>	<u>Weeks on test</u>	<u>Tissues⁽²⁾ collected</u>	<u>Neoplasms observed</u>	
				<u>Gross (location)</u>	<u>Histologic (type)</u>
5763	k	12	N		
5730	k	18	S	Subcutaneous	Sarcoma
5745	k	19	S	Subcutaneous	Sarcoma
5752	k	19	S	Subcutaneous	Sarcoma
5735	k	21	N	Subcutaneous	
5742	d	21	N		
5747	d	21	N		
5765	k	21	S	Subcutaneous	
5748	d	23	N		
5743	d	24	S	Seminal vesic	Infection
5776	d	24	S		
5741	k	25	S	Subcutaneous	Sarcoma
5769	d	26	N		
5737	k	27	N	Subcutaneous	
5764	d	28	N		
58	d	31	N		
5759*	k	33	T	Subcutaneous	Sarcoma
5750	d	34	N		
5773	k	34	N		
5734	d	37	N		
5766	d	39	N		
5744	d	39	N		
5738*	d	41	T		Negative
5736*	k	45	T		Lymphomatous spleen
5754*	k	51	T	Subcutaneous	
5770*	k	54	T		Negative

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Table 46

Fate of Mice and Incidence of Neoplasm

Positive control - DBA in oil - low level - females

Animal Number	Fate (1)	Weeks on test	Tissues (2) collected	Neoplasms observed	
				Gross (location)	Histologic (type)
5786	d	7	N		
5823	d	13	N		
5822	k	18	S	Subcutaneous	Sarcoma
5813	k	19	S	Subcutaneous	
5804	k	19	S	Subcutaneous	Sarcoma
5803	d	19	N		
5800	d	19	N		
5779	d	19	N		
5789	d	20	S	Subcutaneous	Sarcoma
5805	d	20	N		
5802	d	21	N		
5780	d	22	N		
5783	d	22	N		
5788	k	22	S	Subcutaneous	Sarcoma
5791	c	23	N		
5819	d	36	N		
5809*	k	43	T		Lymphosarcoma liver, spleen
5787	d	43	S	Subcutaneous	Sarcoma
5791	d	47	N		
5785	k	49	N		
5793	d	53	N		
5792*	d	54	T		Negative

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Table 47

Fate of Mice and Incidence of Neoplasm

Positive control - DBA in oil - high level - males

Animal Number	Fate (1)	Weeks on test	Tissues (2) collected	Neoplasms observed	
				Gross (location)	Histologic (type)
5643	k	15	S	Subcutaneous	Sarcoma
5647	k	16	S	Subcutaneous	Sarcoma
5667	k	20	S	Subcutaneous	Necrotic
5668	d	20	N		
5650	k	21	S	Subcutaneous	
5631	k	22	S	Subcutaneous	Sarcoma
564	d	22	S	Subcutaneous	Sarcoma
5663	k	23	S	Subcutaneous	Sarcoma
5637	d	24	S		
5673	d	24	S	Subcutaneous	Sarcoma
5664	d	25	N		
5635	k	25	S	Subcutaneous	Sarcoma
5666	d	25	N		
5629	d	25	N		
5	d	26	N		
5634	d	26	N		
5649	k	28	S	Subcutaneous	Sarcoma
5653	k	28	S	Subcutaneous	Sarcoma (abscess)
5655*	k	30	T	Subcutaneous	Sarcoma
5656*	k	30	T	Subcutaneous	Sarcoma
5636	d	31	N		
5640	d	31	N		
5638*	k	33	T	Subcutaneous	Sarcoma
5675	d	33	N		
5659	d	35	N		
5665*	d	35	N		
5662*	d	37	T	Subcutaneous	Negative
5658	k	37	T	Subcutaneous	Sarcoma
5660	d	39	N		
5661*	d	39	T		Negative
5652	d	40	T		
5654*	k	40	T	Subcutaneous	Sarcoma; cystic ovary
5630	d	42	S	Subcutaneous	Sarcoma
5674*	d	51	T		Negative
5642*	d	59	T		Papilloma, skin
5670	d	57	T		

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Table 48

Fate of Mice and Incidence of Neoplasm

Positive control - DBA in oil - high level - females

Animal Number	Fate (1)	Weeks on test	Tissues (2) collected	Neoplasms observed	
				Gross (location)	Histologic (type)
5725	k	13	S	Subcutaneous	
5693	k	15	S	Subcutaneous	
5684	k	16	S	Subcutaneous	Sarcoma
5685	k	17	S	Subcutaneous	Sarcoma
5686	d	17	S		
5687	k	17	S	Subcutaneous	Edematous salivary gland
5702	k	17	S	Subcutaneous	Sarcoma
5681	k	18	S	Subcutaneous	
5705	d	19	S	Mammary	Sarcoma
5726	k	19	S	Mammary	Sarcoma
5704	k	19	S	Mammary	Sarcoma
5694	d	22	N		
5703	d	22	S	Mammary	Sarcoma
5716	d	23	N		
5722	k	23	S	Subcutaneous	Sarcoma
5723	d	23	N		
5698	d	24	N		
5728	d	26	N		
5714	d	27	N		
5710	c	27	N		
5712	d	27	N		
5713	k	27	S	Subcutaneous	Sarcoma
5687	k	31	T	Subcutaneous	
5718*	k	31	T	Subcutaneous	Sarcoma, lymphomatous infiltration of lungs
5721	c	31	N		
5695	d	55	N		
5689*	d	61	T		
5696	d	61	N		Negative

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Table 49

Fate of Mice and Incidence of Neoplasm

Positive control - DBA in saline - low level - males

Animal Number	Fate (1)	Weeks on test	Tissues ⁽²⁾ collected	Neoplasms observed	
				Gross (location)	Histologic (type)
5268	d	9	N		
5292	d	9	S		
5290	d	10	N		
5293	d	10	S		
5255	d	11	N		
5289	d	12	N		
5257	d	15	N		
5258	d	20	N		
5272	d	21	N		
5256	d	24	N		
5294	d	26	S		
5263	d	28	N		
5261	d	29	N		
5284	d	31	N		
281	k	32	N		
5282	k	32	T		
5279	d	36	N		
5275*	d	38	T		Negative
5277*	k	38	T		Lymphomatous spleen
5271	d	42	N		
5291	d	45	N		
5259*	k	45	T		Negative
5253	d	45	N		
5270	d	48	N		
5250*	k	51	T		Skin papilloma
5254*	d	53	N		Negative
5273*	d	54	T		Fibroma, urinary bladder, lymphomatous kidney
5260*	d	55	T		Skin papilloma with ne- crosis and abscess
5248*	d	57	T		Negative
5266	d	58	N		

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Table 50

Fate of Mice and Incidence of Neoplasm

Positive control - DBA in saline - low level - females

Animal Number	Fate (1)	Weeks on test	Tissues ⁽²⁾ collected	Neoplasms observed	
				Gross (location)	Histologic (type)
5229	d	18	N		
5299	d	20	N		
5328	d	21	N		
5308	k	22	N		
5312*	d	28	T	Subcutaneous	Sarcoma
5310	d	31	N		
5295	k	33	T		
5313	c	35	N		
5314	d	35	N		
5298	d	39	N		
5317	d	42	N		
5320	d	46	N		
5307	d	49	N		
5296*	d	53	T	Lung	Lung abscess; not neo-
97 *	k	56	T		Negative plastic

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Table 51

Fate of Mice and Incidence of Neoplasm

Positive control - DBA in saline - high level - males

Animal Number	Fate (1)	Weeks on test	Tissues ⁽²⁾ collected	Neoplasms observed	
				Gross (location)	Histologic (type)
5388	d	8	N		
5360	d	9	N		
5343	d	10	N		
5366	d	10	S		
5387	d	13	N		
5341	d	13	S		
5355	d	15	N		
5383	d	20	N		
5386	d	20	N		
5385	d	21	N		
5349	d	21	N		
5348	d	22	N		
5389	d	23	N		
5382	d	29	N		
5384	k	31	N		
5350	d	33	N		
5340	d	37	N		
5376 *	d	38	T		Negative
5342 *	d	40	T		Negative
5361 *	d	50	T		Adenoma of lung
5364 *	d	52	T		Negative
5377 *	d	50	N		Lymphomatous infiltration
5346	d	55	N		of lung

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Table 52

Fate of Mice and Incidence of Neoplasm

Positive control - DBA in saline - high level - females

<u>Animal Number</u>	<u>Fate</u> ⁽¹⁾	<u>Weeks on test</u>	<u>Tissues</u> ⁽²⁾ <u>collected</u>	<u>Neoplasms observed</u>	
				<u>Gross (location)</u>	<u>Histologic (type)</u>
5415	d	5	S		
5416	d	8	N		
5426	d	24	N		
5425	d	25	N		
5436	d	39	N		
5390	d	45	N		
5419*	k	47	T		Negative

Table Explanation

Tables 52 through 90
Titled "Animals Sacrificed at Termination"

Table No.

Animals Sacrificed at Termination

Group Identification

<u>Animal</u> <u>Number</u> (1)	<u>Code</u> (2)	<u>Neoplasms Observed</u> (3)	
		<u>Gross (location)</u>	<u>Histologic (type)</u>

- (1) Animal number denotes the number assigned to each animal at the time they were weaned. Each weanling was identified by ear notches and assigned an identification number
- (2) Code - Indicates under what conditions histologic examination was made. At termination all surviving animals were sacrificed and 15 animals per sex per group were selected at random for complete histologic examination. These animals compose Code 1.

Where there were not 10 suitable animals from those dead on test to fulfill the number we wished to examine histologically from this group, the number necessary to make a total of 10 animals were chosen from animals sacrificed at termination. These animals make up Code 2.

If animals did not fall in Code 1 or Code 2 categories but had suspected tumors observed grossly, these suspect tissues were processed individually. These animals compose the Code 3.

- (3) Neoplasms observed
- Gross (location) Any enlargement or abnormality which could be suspected of being neoplastic on gross observation is noted as to location. A notation is entered for all animals and negative indicates no suspected neoplasm observed.
- Histologic (type) Observations are noted with regard to neoplasms only and a notation made in all cases where histologic examination made whether a tumor was present or not.

Type of tumor is noted and also location if information not noted in "Gross (location)" column. If suspected gross tumor was shown by histology to not be neoplastic, this is noted and explained.

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Table 53

Animals Sacrificed at Termination
Negative control - male

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
4849		Negative	
4855		Negative	
4856	1	Negative	Negative
4858	1	Mesenteric lymph node	Not neoplastic
4861	1	Negative	Negative
4866	1	Negative	Negative
4870		Negative	
4879		Negative	
4882		Negative	
4883	3	Injection site	Skin papilloma
4885	1	Negative	Negative
4886		Negative	
4888		Negative	
4891		Negative	
4895	1	Negative	Negative
4897	3	Lung	Adenoma
4898	1	Negative	Negative
4902		Negative	
4903		Negative	
4904		Negative	
4906		Negative	
4907	1	Negative	Negative
4908	1	Negative	Negative
4909		Negative	
4910		Negative	
4917		Negative	
4918		Negative	
4919	1	Negative	Negative
4922		Negative	
4923		Negative	
4928		Negative	
4929	1	Negative	Negative
4930		Negative	
4931		Negative	
4933	1	Negative	Negative
4934		Negative	
4935		Negative	
4936	1	Negative	Liver, adenomatous changes of biliary epithelium
4937		Negative	
4939		Negative	
4940		Negative	
4941	1	Testes	Not neoplastic
4942		Negative	
4943		Negative	

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Table 53 (continued)

Animals Sacrificed at Termination

Negative control - Males

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
4945	1	Negative	Negative
4953		Negative	
4957	1	Negative	Negative
4958	1	Negative	Negative
4959		Negative	
4961		Negative	
4962	1	Negative	Negative
4964	1	Negative	Negative
4965		Negative	
4966		Negative	
4967		Negative	
4968		Negative	
4969		Negative	
4975	1	Negative	Negative
4978	1	Negative	Negative
4979		Negative	
4980		Negative	
981		Negative	
4982	1	Negative	Negative
4985		Negative	
4986		Negative	
4987	1	Negative	Negative
4990		Negative	
4991	1	Negative	Negative
4992	1	Negative	Negative
4993	3	Adrenal	Not neoplastic
4994		Negative	
4995		Negative	
4996		Negative	
4998	1	Negative	Negative
4999		Negative	
5003	1	Spleen	No neoplastic (hyperplasia)
5004		Negative	
5012		Negative	
5014	1	Negative	Negative
5018		Negative	
5020		Negative	
5021		Negative	
5022		Negative	
5023		Negative	
5024		Negative	
5025		Negative	

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Table 53 (continued)

Animals Sacrificed at Termination
Negative control - males

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
5026	1	Spleen, kidney	Spleen, lymphomatous hyperplasia; kidney, small hemorrhagic cyst
5029		Negative	
5030		Negative	
5034	1	Negative	Negative
5035		Negative	
5036		Negative	
5038		Negative	
5039		Negative	

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Table 54
Animals Sacrificed at Termination
Negative control - female

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
5045	3	Lung	Adenoma
5048	3	Thymus, uterus	Thymus, lymphomatous; uterus, fibroma and cystic
5050		Negative	
5054		Negative	
5055		Negative	
5056	3	Lung	Adenoma
5057	1	Negative	Negative
5059		Negative	
5060	3	Thymus, ovary	Thymus, lymphosarcoma; ovary, hemangioma
5061		Negative	
5062	1	Negative	Negative
5063		Negative	
5064	1	Negative	Lung, adenoma
5066		Negative	
5068		Negative	
5071		Negative	
5075		Negative	
5076		Negative	
5077	3	Thymus	Not neoplastic
5078		Negative	
5079	3	Liver, spleen, pericardium	Sarcoma, undifferentiated at all sites, not neoplastic, suppurative metritis
5080	3	Uterus, ovary	
5081		Negative	
5082	1	Lung, mesenteric L.N.	Not neoplastic
5083	3	Urogenital tract	Not neoplastic, suppurative inflammation of the bladder
5085		Negative	
5087		Negative	
5089		Negative	
5092	1	Negative	Negative
5093		Negative	
5094		Negative	
5095		Negative	
5096	1	Negative	Lung adenoma
5097		Negative	
5098		Negative	
5100	1	Thymus, mesenteric L.N. pancreas	Lymphomatous changes
5102		Negative	
5103	1	Negative	Negative

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Table 54 (continued)

Animals Sacrificed at Termination
Negative control - female

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
5104			
5105	3	Uterus	Not neoplastic (cystic endometritis)
5107	1	Ovary, adrenal	Not neoplastic (cystic ovary)
5108			
5109		Negative	
5110		Negative	
5111	Negative		
5112		Negative	
5113		Negative	
5114	3	Lung	Negative
5115		Negative	
5116	1	Lung	Adenoma
5119		Negative	
5121		Negative	
5122		Negative	
5123	1	Negative	Negative
5124		Negative	
5125		Negative	
5126		Negative	
5127		Negative	
5128		Negative	
5130		Negative	
5132	1	Negative	Negative
5133	1	Negative	Negative
5135		Negative	
5136		Negative	
5137		Negative	
5138		Negative	
5142		Negative	
5145		Negative	
5146		Negative	
5148		Negative	
5149		Negative	
5150	1	Negative	Negative
5151		Negative	
5152		Negative	
5153		Negative	
5154		Negative	
5155		Negative	

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Table 54 (continued)
Animals Sacrificed at Termination
Negative control - female

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
5156		Negative	
5157		Negative	
5159		Negative	
5160	3	Thymus	Lymphosarcoma
5162		Negative	
5163		Negative	
5164		Negative	
5165	1	Negative	Lymphomatous infiltration kidney, lung and mediastinal
5166		Negative	
5167	1	Negative	Negative
5168	3	Lung	Adenoma
5169	1	Negative	Negative
5170		Negative	
5171		Negative	
5172	1	Negative	Negative
5173	1	Negative	Negative
5174		Negative	
5175	1	Negative	Negative
5176	1	Negative	Lymphomatous kidney
5177	1	Negative	Negative
5178		Negative	
5179		Negative	
5180		Negative	
5181	1	Negative	Adenoma of lung
5182		Negative	
5183		Negative	
5184		Negative	
5185		Negative	
5186		Negative	
5189		Negative	
5191		Negative	
5192		Negative	
5193		Negative	
5197	1	Negative	Negative
5202		Negative	
5203		Negative	
5205	1	Negative	Negative
5206		Negative	

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Table 54 (continued)

Animals Sacrificed at Termination

Negative control - female

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
5208		Negative	
5210		Negative	
5215		Negative	
5217	3	Uterus	Not neoplastic, cystic metritis
5222		Negative	
5223	1	Lung	Adenoma
5225		Negative	
5226		Negative	
5227		Negative	
5228		Negative	
5229	1	Negative	Negative
5230		Negative	
5233	3	Fatty neoplasm thorax	Lymphosarcoma
5234	1	Lung	Adenoma
5235	1	Uterus	Negative
5236		Negative	
5237		Negative	
5238	1	Negative	Negative
5239		Negative	
5240		Negative	
5241	3	Lung	Adenoma
5242		Negative	
5243		Negative	
5244		Negative	

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Table 55

Animals Sacrificed at Termination

Pyridine - low level - males

Animal		Neoplasms Observed	
<u>No.</u>	<u>Code</u>	<u>Gross (location)</u>	<u>Histologic (type)</u>
5932	1	Negative	Negative
5935	1	Negative	Negative
5938	1	Lung	Not neoplastic, abscess
5940	1	Negative	Negative
5941	1	Negative	Negative
5942	2	Negative	Negative
5947	1	Negative	Negative
5948	1	Negative	Negative
5949	2	Negative	Negative
5950	1	Negative	Negative
5951	2	Negative	Negative
5952	1	Negative	Negative
5953	1	Negative	Negative
5954	2	Negative	Lung adenoma
5955	1	Negative	Negative
5956	2	Negative	Negative
5958	2	Negative	Negative
5959	1	Negative	Negative
5965	1	Negative	Negative
5967	2	Negative	Negative
5969	2	Negative	Negative
5972	1	Negative	Negative
5973	2	Negative	Negative
5978	1	Negative	Negative

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Table 56
Animals Sacrificed at Termination
Pyridine - low level - females

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
5984	1	Negative	Negative
5985	1	Negative	Negative
5986	1	Negative	Lymphomatous infiltration of lung & kidney
5987	1	Negative	Lymphomatous infiltration of lung & kidney
5988	2	Negative	Negative
5990	1	Uterus, liver	Uterus, fibrosarcoma; ovary, hemangioma; liver, normal
5991	1	Negative	Negative
5996	1	Uterus	Negative
5998	1	Uterus	Fibrosarcoma
5999	3	Uterus	Not neoplastic
6000	3	Uterus	Not neoplastic
6001	1	Negative	Negative
6002	2	Negative	Liver & kidney, lymphomatous infiltration
6008	1	Negative	Negative
6009	1	Thymus	Negative
6010	3	Uterus	Hemangioma
6011	3	Pancreas, uterus	Not neoplastic
6012	2	Negative	Negative
6013	1	Negative	Negative
6014	3	Ovary	Not neoplastic, cystic
6018	1	Negative	Negative
6019		Negative	
6020	2	Negative	Kidney, lymphomatous infiltration
6022	1	Negative	Negative
6023	1	Lung	Negative
6024		Negative	
6025	2	Negative	Negative
6026		Negative	
6028		Negative	

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Table 57

Animals Sacrificed at Termination

Pyridine - high level - males

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
5829	1	Negative	Lung adenoma
5830		Negative	
5832	2	Negative	Negative
5833	1	Negative	Negative
5834	1	Negative	Negative
5837	1	Negative	Negative
5939	2	Negative	Negative
5841	1	Negative	Negative
5842	3	Pancreas	Negative
5844	1	Negative	Negative
5846	1	Negative	Lung adenoma
5847	2	Negative	Negative
5848		Negative	
5850		Negative	
5854	2	Lung	Not neoplastic
5857	1	Negative	Negative
5858	1	Negative	Negative
5859	1	Negative	Negative
5862	1	Negative	Negative
5863	2	Negative	Pancreas and kidney, lymphomatous infiltration
5864	1	Negative	Negative
5865	2	Negative	Negative
5866	2	Negative	Negative
5871	1	Negative	Negative
5872	1	Negative	Negative
5873	2	Negative	Negative
5875	1	Negative	Negative
5876	2	Negative	Negative
5878	2	Negative	Negative

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Table 58
Animals Sacrificed at Termination
Pyridine - high level - females

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
5879	2	Negative	Negative
5880	2	Negative	Negative
5881	2	Thymus	Kidney, lymphomatous infiltration
5882	2	Negative	Negative
5883	2	Negative	Negative
5885	1	Negative	Negative
5888	2	Negative	Sarcoma of lung
5889	1	Negative	Negative
5890	1	Negative	Kidney, lymphomatous infiltration
5892	1	Spleen, uterus	Uterus, fibrosarcoma; spleen, hyperplasia
5894	1	Negative	Negative
5895	1	Negative	Kidney, lymphomatous infiltration
5896		Negative	
5897	2	Negative	Negative
5898		Negative	
5899	3	Uterus	Not neoplastic
5900	3	Uterus	Mixed fibrosarcoma and fibroma
5901	1	Negative	Negative
5902	2	Negative	Negative
5903	3	Uterus	Not neoplastic
5906		Negative	
5907		Negative	
5908	1	Negative	Kidney, lymphomatous infiltration
5909	1	Negative	Negative
5910		Negative	
5911		Negative	
5912		Negative	
5914	3	Uterus	Not neoplastic
5915		Negative	
5916	1	Uterus	Uterus, not neoplastic; kidney, lymphomatous infiltration
5917	1	Negative	Negative
5919	1	Negative	
5920		Negative	
5921		Negative	
5923	1	Uterus	Not neoplastic
5925		Negative	
5926		Negative	
5927	1	Negative	Negative
5928	1	Negative	Negative

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Table 59

Animals Sacrificed at Termination
Ethylene glycol - low level - male

Animal		Neoplasms Observed	
<u>No.</u>	<u>Code</u>	<u>Gross (location)</u>	<u>Histologic (type)</u>
6672	1	Negative	Negative
6674	1	Negative	Negative
6678		Negative	
6679	1	Negative	Negative
6680	1	Negative	Negative
6681	1	Negative	Negative
6683	1	Negative	Negative
6684		Negative	
6685	1	Negative	Negative
6687	1	Negative	Negative
6689	1	Negative	Negative
6690	1	Negative	Negative
6694		Negative	
6696	1	Negative	Negative
6697	1	Negative	Negative
6698		Negative	
6699	2	Negative	Negative
6700	2	Negative	Negative
6705		Negative	
6706	1	Negative	Negative
6707	1	Negative	Negative
6708		Negative	
6709	2	Negative	Negative
6710	2	Negative	Negative
6713		Negative	
6716		Negative	
6717	2	Negative	Negative
6718	2	Negative	Negative
6719	2	Negative	Negative
6720	1	Negative	Negative

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Table 60
Animals Sacrificed at Termination
Ethylene glycol - low level - female

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
6721	1	Negative	Lymphomatous infiltration of kidney
6722	2	Negative	Negative
6726	2	Uterus	Not neoplastic, cystic endometritis
6727	2	Negative	Negative
6729		Negative	
6732	2	Negative	Negative
6733		Negative	
6734	1	Negative	Negative
6735	3	Ovary	Not neoplastic
6736	1	Negative	Negative
6737		Negative	
6738	1	Negative	Negative
6739	2	Negative	Negative
6740	1	Negative	Negative
6742		Uterus	
6743	1	Negative	Negative
6744	1	Uterus	Fibrosarcoma, uterus; lymphosarcoma, L.N.
6745		Negative	
6746	1	Negative	Liver & kidney (early lymphosarcoma)
6747	1	Negative	Lung, lymphoma
6748	1	Negative	Negative
6750	1	Negative	Negative
6751	1	Lung	Negative
6752		Negative	
6753		Negative	
6755		Negative	
6756	1	Negative	Lymphomatous infiltration of kidney
6757	1	Negative	Negative
6759		Negative	
6760		Negative	
6761		Negative	
6762		Negative	
6763	2	Negative	Negative
6764		Negative	
6765	3	Uterus	Not neoplastic, severe cystic endometritis
6768	1	Uterus	Not neoplastic, cystic endometritis

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Table 61

Animals Sacrificed at Termination
Ethylene glycol - high level - male

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
6031		Negative	
6034	1	Negative	Kidney, lymphosarcoma
6677		Negative	
6037		Negative	
6038	1	Negative	Negative
6040	2	Negative	Negative
6041	3	Lung	Adenoma
6042	1	Negative	Negative
6044	1	Negative	Negative
6047		Negative	
6049	2	Negative	Negative
6050	1	Negative	Negative
6052	2	Negative	Negative
6054	1	Negative	Negative
6055	1	Negative	Negative
6056	2	Negative	Negative
6058	1	Skin, postscapular L.N.	Not neoplastic; skin & lymph node show hyperplasia
6059	1	Negative	Negative
6062	1	Negative	Negative
6064	2	Negative	Negative
6066	1	Negative	Negative
6069	2	Negative	Negative
6070	1	Lung	No neoplasm or pathology in 3 lobes present on slide
6071	1	Negative	Negative
6072	1	Negative	Negative
6073	1	Negative	Negative

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Table 62
Animals Sacrificed at Termination
Ethylene glycol -high level - female

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
6081	1	Uterus	Not neoplastic, cystic endometritis
6082	3	Uterus	Fibrosarcoma
6083	2	Negative	Negative
6086	2	Negative	Negative
6087		Negative	
6088	1	Negative	Negative
6089		Negative	
6091	1	Uterus	Not neoplastic, cystic endometritis
6092	2	Uterus	Not neoplastic, cystic endometritis
6093		Negative	
6096	1	Negative	Negative
6097	3	Uterus	Not neoplastic, cystic endometritis
6099	1	Spleen	Lymphosarcoma, spleen, liver, in- jection site
6100	1	Negative	Negative
6101	1	Negative	Negative
6103	3	Spleen, submaxillary L.N.	Lymphosarcoma
6104	2	Ovary	Not neoplastic, cystic
6111	1	Negative	Negative
6112		Negative	
6114	1	Negative	Fibrosarcoma, vagina, granuloma of lung
6115	1	Negative	Negative
6116			Negative
6117	1	Negative	Negative
6118	2	Negative	Negative
6119	1	Negative	Negative
6120	1	Negative	Negative
6121	1	Negative	Negative
6122		Negative	
6123		Negative	
6124		Negative	
6104			

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Table 63

Animals Sacrificed at Termination

2-chlorethanol - low level -male

Animal		Neoplasms Observed	
<u>No.</u>	<u>Code</u>	<u>Gross (location)</u>	<u>Histologic (type)</u>
6871	1	Negative	Negative
6872	1	Negative	Negative
6873	1	Negative	Negative
6874	1	Negative	Negative
6875	1	Negative	Lung adenoma
6876	2	Negative	Negative
6879	1	Negative	Negative
6881		Negative	
6883	1	Negative	Negative
6884	1	Negative	Negative
6886	1	Negative	Negative
6887	1	Negative	Negative
6890		Negative	
6891	1	Negative	Negative
6897		Negative	
6900	1	Negative	Negative
6801	1	Negative	Negative
6903	1	Negative	Negative
6905	1	Negative	Negative
6910		Negative	
6911		Negative	
6912		Negative	
6916		Negative	

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Table 64

Animals Sacrificed at Termination
2-chlorethanol - low level - female

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
6919		Negative	
6920	1	Negative	Negative
6923	1	Lung	Not neoplastic, tissue metaplasia
6924		Negative	
6925		Negative	
6926	1	Negative	Negative
6927	1	Negative	Negative
6928		Negative	
6929	1	Negative	Negative
6932	1	Negative	Negative
6933	2	Negative	Negative
6934	1	Negative	Negative
6935			
6936	2	Skin	Not neoplastic
6937	2	Negative	Negative
6938	1	Negative	Negative
6939		Negative	
6940	3	Uterus	Not neoplastic, cystic endometritis
6941		Negative	
6942	1	Negative	Negative
6944		Negative	
6946	1	Negative	Negative
6946	1	Negative	Hepatitis
6947		Negative	
6949		Negative	
6950		Negative	
6952	2	Thymus, spleen	Splenic hyperplasia, not neoplastic
6953	1	Negative	Negative
6954	2	Negative	Negative
6955		Negative	
6956	1	Negative	Negative
6957		Negative	
6959	1	Negative	Negative
6960	1	Negative	Negative
6961		Negative	
6962	2	Negative	Negative
6963	1	Negative	Sarcoma (type ?) of submaxillary gland
6964	2	Negative	Negative
6965		Negative	
6966	2	Negative	Negative

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Table 65

Animals Sacrificed at Termination
2-chlorethanol - high level - male

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
6771		Negative	
6773	2	Negative	Negative
6774	1	Negative	Negative
6775		Negative	
6777	1	Negative	Negative
6781		Negative	
6782	1	Negative	Negative
6783		Negative	
6790	1	Negative	Negative
6791	1	Negative	Negative
6794	1	Negative	Negative
6795	1	Negative	Negative
6798		Negative	
6799	1	Negative	Negative
6801	2	Negative	Negative
6802	1	Negative	Negative
6803	1	Negative	Negative
6804	2	Negative	Negative
6805	1	Negative	Negative
6806	2	Negative	Negative
6807	2	Negative	Negative
6808	1	Negative	Negative
6810	2	Negative	Negative
6815	1	Negative	Negative
6816		Negative	
6817	1	Negative	Negative
6818	1	Negative	Negative
6820	2	Negative	Negative

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Table 66

Animals Sacrificed at Termination
2-chlorethanol - high level - females

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
6821	1	Negative	Negative
6822		Negative	
6823		Negative	
6824		Negative	
6825	3	Uterus	Not neoplastic, cystic endometritis
6826	1	Negative	Hepatitis, lymphomatous infiltration in kidney
6827		Negative	
6828	1	Negative	Lymphomatous infiltration of kidney
6829	1	Negative	Negative
6831	1	Uterus	Lymphomatous infiltration of kidney; uterus not neoplastic (cystic)
6832	1	Spleen, uterus	Lymphosarcoma
6833	3	Uterus	Not neoplastic, cystic endometritis
6834		Negative	
6835	3	Skin	Not neoplastic, inflammatory
6836	2	Negative	Lymphomatous hyperplasia, thymus
6837	1	Negative	Hemangioma of ovary
6838		Negative	
6839	1	Negative	Adenoma of lung
6840	1	Negative	Negative
6841		Negative	
6842		Negative	
6843		Negative	
6844		Negative	
6845	3	Lung	Adenoma
6846		Negative	
6848		Negative	
6849	1	Negative	Negative
6850		Negative	
6851	1	Negative	Negative
6853		Negative	
6854		Negative	
6855		Negative	
6856	1	Negative	Negative

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Table 66 (continued)

Animals Sacrificed at Termination
2-chlorethanol - high level - females

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
6858	2	Uterus	Lymphomatous infiltration of kidney
6859	1	Negative	Negative
6861	3	Lung	Adenoma
6862	1	Negative	Ectopic bone in spleen, not neoplastic
6863		Negative	
6865		Negative	
6866		Negative	
6867	2	Negative	Lymphomatous infiltration of kidney
6868	1	Negative	Negative
6869	2	Negative	Negative
6770	2	Negative	Negative

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Table 67

Animals Sacrificed at Termination
Benzethonium - low level - male

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
7065	1	Negative	Negative
7066	3	Lung	Not neoplastic; abscess
7067	1	Negative	Negative
7069		Negative	
7070	1	Negative	Negative
7073	1	Negative	Negative
7074	1	Negative	Negative
7075	1	Negative	Negative
7076	1	Negative	Negative
7079	1	Negative	Negative
7080		Negative	
7081	2	Negative	Negative
7083	1	Negative	Negative
7084	1	Lung	Adenoma, necrotic
7087	1	Negative	Negative
7089		Negative	
7094			
7102	1	Negative	Negative
7103	1	Negative	Negative
7104	1	Negative	Negative
7105	1	Negative	Negative
7106		Negative	

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Table 68

Animals Sacrificed at Termination
Benzethonium - low level - females

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
7113		Negative	Negative
7114	1	Negative	Negative
7116	3	Uterus	Not malignant; cystic endometritis
7117	1	Negative	Negative
7118		Negative	
7119	2	Negative	Negative
7120	1	Negative	Negative
7121		Negative	
7122	2	Negative	Negative
7123		Negative	
7124	2	Negative	Negative
7125	1	Negative	Negative
7126	1	Negative	Negative
7127	2	Negative	Lymphosarcoma, kidney, mesenteric L.N.
7129	1	Negative	Negative
7131			
7133		Negative	
7135	3	Pancreas	Not malignant - minimal lipomatosis
7138		Negative	
7139	3	Diaphragm, liver, pancreas	Pancreas & liver, cystic degeneration, focal, probably parasitic causes lymphomatous infiltration
7140	1	Negative	Negative
7141	2	Adrenal, ovary	Not neoplastic, kidney, lymphomatous infiltration
7142	2	Uterus	Not neoplastic, cystic endometritis
7143		Negative	
7144	1	Negative	Negative
7145		Negative	
7146	1	Negative	Negative
7147	1	Negative	Negative
7148		Negative	
7149	1	Negative	Negative
7151		Negative	
7152	1	Negative	Negative
7155	2	Negative	Negative
7156	1	Negative	Negative
7158	1	Pancreas	Adenoma of lung, pancreas not neoplastic
7159	1	Negative	Negative
7161	2	Negative	Lymphomatous hyperplasia, spleen

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Table 69

Animals Sacrificed at Termination
Benzethonium - high level - male

Animal		Neoplasms Observed	
No.	Code	Gross (location)	Histologic (type)
6968	2	Negative	Negative
6973	1	Negative	Negative
6974	1	Negative	Negative
6975	1	Negative	Negative
6977	1	Negative	Negative
6978	1	Negative	Negative
6979	1	Negative	Negative
6981	1	Negative	Negative
6983	2	Negative	Negative
6985	1	Negative	Negative
6986	1	Negative	Negative
6987	1	Negative	Negative
6988	1	Negative	Negative
6995	1	Negative	Negative
6996		Negative	
7007	2	Negative	Negative
7011	1	Negative	Negative
7012	1	Negative	Negative
13514	2	Kidney, liver	Not neoplastic; kidney, suppurative cystic nephritis, cystic hepatitis
13515	1	Negative	Negative

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Table 70

Animals Sacrificed at Termination
Benzethonium - high level - females

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
7015	1	Negative	Negative
7017	1	Negative	Negative
7018	1	Negative	Lung adenoma (ductile)
7020	2	Negative	Negative
7029	1	Negative	Negative
7030	1	Negative	Negative
7031		Negative	
7032	2	Negative	Negative
7033	2	Negative	Negative
7035	1	Negative	Negative
7037	1	Negative	Negative
7038	1	Negative	Negative
7041			
7042	1	Negative	Negative
7043	2	Negative	Negative
7045	2	Negative	Negative
7049	1	Lung	Adenoma of lung
7050		Negative	
7051	1	Uterus	Not neoplastic (cystic endometritis)
7052	1	Negative	Negative
7053	1	Negative	Lymphosarcoma
7055	1	Negative	Negative
7056	2	Negative	Negative
7060	1	Negative	Negative
7061	2	Negative	Negative

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Table 71

Animals Sacrificed at Termination

Phenol red - low level - male

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
6131	1	Negative	Negative
6133	1	Negative	Negative
6134	1	Negative	Negative
6137		Negative	
6138	1	Negative	Negative
6139	1	Negative	Negative
6142	1	Negative	Negative
6144	1	Negative	Negative
6148	1	Negative	Negative
6149		Negative	
6151	1	Negative	Negative
6152	1	Negative	Negative
6161	1	Negative	Negative
6162	1	Negative	Negative
6164	1	Negative	Negative
6165	1	Negative	Negative
6171	1	Negative	Negative
6172			

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Table 72
Animals Sacrificed at Termination
Phenol red - low level - female

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
7263	2	Negative	Negative
7266	2	Negative	Negative
7669	1	Negative	Negative
7270	1	Negative	Negative
7271	3	Ovary, uterus	Not neoplastic; cystic endometritis, cystic ovary
7272	2	Negative	Negative
7273	3	Ovary	Not neoplastic, cystic
7275		Negative	
7276	1	Negative	Negative
7277	2	Uterus	Not neoplastic
7278	1	Lung, uterus	Lung, not neoplastic, chronic pneumonia; uterus, not neoplastic
7280	3	Submaxillary (subcu.)	Not neoplastic, abscess & granulomatous tissue
7281	1	Negative	Negative
7282	1	Negative	Negative
7283	2	Negative	Negative
7285	2	Negative	Kidney, lymphomatous infiltration
7286	2	Negative	Negative
7289	1	Negative	Negative
7290	2	Uterus	Not neoplastic, cystic endometritis
7292	1	Negative	Negative
7293	2	Negative	Negative
7295	1	Lung	Adenoma of lung
7296	1	Negative	Negative
7297		Negative	
7298	1	Negative	Negative
7299		Negative	
7300	1	Negative	Negative
7301		Negative	
7302	1	Negative	Negative
7303			
7304	1	Negative	Negative
7305		Negative	
7306		Negative	
7307		Negative	Negative
7308		Negative	
7309	1	Lung	No neoplasm, lymphoid nodule
7310		Negative	
7311		Negative	
7312	2	Negative	Negative

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Table 73

Animals Sacrificed at Termination

Phenol red - high level -males

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
7163	1	Negative	Adenoma of lung
7164	1	Negative	Negative
7166	2	Negative	Negative
7169	2	Negative	Cystic kidney, papillomatous hyperplasia of pelvis or ureter
7170	1	Liver	Not neoplastic, focal necrosis
7177	1	Skin	Papillomatous hyperplasia of epithelium
7180	3	Heart, lung, spleen, pancreas	Sarcoma, undifferentiated, probably fibro.
7184	2	Negative	Cystic kidney
7185	1	Negative	Cystic kidney
7187	1	Negative	Negative
7189	1	Negative	Negative
7190	2	Negative	Negative
7191	2	Negative	Negative
7193	1	Negative	Negative
7195	1	Negative	Negative
7197	1	Negative	Negative
7198	1	Negative	Negative
7199	2	Negative	Negative
7200	2	Negative	Negative
7201		Negative	
7202	1	Negative	Negative
7203	1	Negative	Negative
7204	1	Negative	Negative
7206	2	Lung	No neoplasm on section
7207	2	Ureter	Not neoplastic, cystic
7208		Negative	
7210	1	Negative	Negative

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Table 74
Animals Sacrificed at Termination
Phenol red - high level - female

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
7213		Negative	
7215	3	Uterus	Fibrosarcoma
7216	1	Negative	Negative
7217	1	Negative	Negative
7218		Negative	
7219	2	Spleen	Lymphomatous spleen
7220	2	Ovary, liver, abdomen	Mixed fibro and lymphosarcoma ovary, liver and mesentary
7222		Negative	
7223	3	Uterus	Not neoplastic, cystic endometritis
7224		Negative	
7225	2	Negative	Negative
7226	1	Negative	Negative
7227	3	Ovary, pancreas, lung	Splenic nodule on pancreas; lung, not neoplastic; ovary normal
7228	3	Lung, spleen	Lymphosarcoma; lung, not neoplastic
7229	1	Negative	Negative
7230			
7231	1	Negative	Negative
7232		Negative	
7233	1	Negative	Negative
7234		Negative	
7235	1	Negative	Negative
7236		Negative	
7237		Negative	
7239	1	Negative	Negative
7240		Negative	
7242		Negative	
7243	2	Negative	Negative
7245	1	Negative	
7247	1	Negative	Adenoma of lung
7249	1	Negative	Negative
7250	2	Negative	Negative
7253	1	Negative	Negative
7254	2	Negative	Negative
7255	1	Pancreas, kidney, abdomen	Fibrosarcoma, pancreas and kidney possib mixed with lymphoma
7256	3	Pancreas	Necrotic fat with secondary granulation
7257		Negative	
7258	1	Negative	Lymphomatous kidney
7259	1	Lung	No neoplasm on sections presented
7260	2	Negative	Negative
7261	2	Negative	Negative

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Table 75

Animals Sacrificed at Termination
Thimerosal, N. F - low level -male

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
6276	1	Lung	Not neoplastic, suppurative pneumonia
6277	1	Negative	Negative
6279		Negative	
6280			
6282	1	Negative	Negative
6283	1	Negative	Negative
6288		Negative	
6291	1	Lung, subcu. L.N., spleen	Not neoplastic, lung abscess, spleen and L.N. hyperplasia
6294	2	Negative	Negative
6295	1	Negative	Negative
6296		Negative	
6297		Negative	
6298	1	Negative	Negative
6300	2	Negative	Negative
6302		Negative	
6303	2	Negative	Negative
6304	1	Negative	Negative
6305	2	Negative	Negative
6306		Negative	
6308	3	Lung	Adenoma
6309		Negative	
6313	1	Negative	Negative
6314	1	Negative	Negative
6315	1	Negative	
6316	1	Negative	Negative
6317	1	Negative	Negative
6320	1	Spleen, bladder	Not neoplastic; chronic cystitis with granulation; spleen, hyperplasia
6321	1	Negative	Negative
6325	1	Negative	Negative

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Table 76
Animals Sacrificed at Termination
Thimerosal N. F. - low level - female

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
6326	3	Bladder	Not neoplastic
6328	1	Negative	Negative
6329	1	Bladder	Not neoplastic
6330	2	Negative	Negative
6332		Negative	
6338	2	Negative	Negative
6341	1	Negative	Negative
6342		Lung	Adenoma.
6343	2	Negative	Negative
6344	1	Negative	Negative
6345	1	Negative	Negative
6347	2	Uterus	Not neoplastic, cystic endometritis
6349	1	Negative	Negative
6350	2	Negative	Negative
6351		Negative	
6352	2	Negative	Negative
6353	2	Negative	Negative
6354			
6355		Negative	
6356		Negative	
6357		Negative	
6358	1	Negative	Lung adenoma
6360	1	Negative	Negative
6362		Negative	
6364	1	Negative	Negative
6365	2	Negative	Negative
6366		Negative	
6367	1	Negative	Negative
6368	2	Negative	Lymphomatous infiltration of kidney
6369	1	Negative	Negative
6370		Negative	
6372	1	Negative	Negative
6374	1	Negative	Negative

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Table 77
Animals Sacrificed at Termination
Thimerosal N. F. - high level - male

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
6176	1	Negative	Negative
6178	1	Negative	Negative
6180	2	Negative	Negative
6182		Negative	
6184	1	Negative	Negative
6185	1	Negative	Negative
6187	2	Negative	Negative
6189	1	Negative	Negative
6191	1	Negative	Negative
6192	2	Negative	Negative
6193			
6194	1	Negative	Negative
6195	1	Negative	Negative
6197	1	Lung	Adenoma of lung
6198	1	Negative	Negative
6200	2	Lung	No neoplasm of lobe presented
6201	1	Negative	Negative
6203	1	Skin, base of skull	Papilloma
6204	2	Negative	Negative
6209	2	Negative	Negative
6211	2	Negative	Negative
6213	1	Negative	Negative
6215	1	Negative	Negative
6216	2	Negative	Negative
6217	1	Negative	Negative
6220	2	Negative	Negative
6221	3	Lung	Not neoplastic, chronic bronchiectasis
6222		Negative	
6223		Negative	
6224		Negative	
6225		Negative	

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Table 78

Animals Sacrificed at Termination
Thimerosal, N.F. - high level - female

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
6227			
6228		Negative	
6230		Negative	
6234	2	Negative	Negative
6235	2	Negative	Negative
6236	1	Lymphoid tissue enlarged	Lymphsarcoma, generalized
6237	2	Negative	Negative
6238		Negative	
6240		Negative	
6241		Negative	
6242	1	Negative	Negative
6244	1	Negative	Negative
6245		Negative	
6246	1	Negative	Negative
6248	1	Negative	Negative
6249	2	Negative	Negative
6250	2	Negative	Negative
6251	1	Negative	Negative
6253		Negative	
6254		Negative	
6255		Negative	
6256	3	Lung	Adenoma
6257	1	Negative	Negative
6258		Negative	
6259	2	Negative	Hemangioma of ovary
6260	1	Negative	Negative
6261	2	Negative	Negative
6262	1	Negative	Lung adenoma
6263	1	Negative	Lung adenoma
6264	1	Uterus, cervix	Fibrosarcoma
6265	1	Negative	Negative
6266	1	Negative	Negative
6267		Negative	
6268	1	Negative	Negative
6269	1	Negative	Negative
6270		Negative	
6271		Negative	
6272		Negative	
6273	3	Adrenal, ovary	Uterus, endometritis

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Table 79

Animals Sacrificed at Termination
Methyl parasept - low level - male

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
6476	2	Negative	Negative
6478	1	Lungs	No neoplasm on 3 lobes presented
6479	1	Negative	Negative
6480	1	Negative	Negative
6481	1	Negative	Negative
6483	2	Negative	Negative
6484		Negative	
6485	1	Negative	Negative
6486	1	Negative	Negative
6489		Negative	
6493	1	Negative	Negative
6500	1	Negative	Negative
6505	2	Negative	Negative
6508	1	Negative	Negative
6510		Negative	
6511	2	Negative	Negative
6512	1	Negative	Negative
6513		Negative	
6514	2	Lung	Adenoma
6515	1	Negative	Adenoma of lung (early)
6516	1	Negative	Negative
6517		Negative	
6518		Negative	
6521	1	Negative	Adenomatosis area of lung
6523	1	Negative	Negative
6524	1	Negative	Negative

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Table 80

Animals Sacrificed at Termination
Methyl parasept - low level - females

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
6525	2	Uterus	Not neoplastic, cystic endometritis
6526	1	Negative	Negative
6529	1	Negative	Negative
6530	2	Negative	Negative
6531		Negative	
6532	1	Negative	Negative
6533	1	Negative	Negative
6534	2	Lung	Neoplasm not present on section
6535	2	Negative	Negative
6536	2	Negative	Negative
6538		Negative	
6539	1	Negative	Negative
6540	1	Negative	Negative
6541	1	Negative	Fibroma of uterus, lymphomatous infiltration of kidney
6542		Negative	
6543	2	Negative	Negative
6544	1	Negative	Negative
6545	1	Negative	Negative
6546	2	Negative	Negative
6547		Negative	
6548	1	Spleen	Lymphosarcoma
6549	1	Negative	Lymphomatous infiltration of kidney
6550		Negative	
6551	1	Negative	Lymphosarcoma
6552		Negative	
6555	3	Uterus	Not neoplastic, cystic endometritis
6556		Negative	
6557	1	Negative	Negative
6558		Negative	
6559		Negative	
6560		Negative	
6561	1	Negative	Negative
6562		Negative	
6563		Negative	
6564	1	Negative	Negative
6565		Negative	
6567		Negative	
6568		Negative	
6570	2	Negative	Negative

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Table 81
Animals Sacrificed at Termination
Methyl parasept - high level - male

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
6375	1	Negative	Negative
6376	1	Negative	Negative
6377	1	Negative	Negative
6378		Negative	
6379		Negative	
6381		Negative	
6386	1	Negative	Negative
6388	2	Negative	Negative
6389		Negative	
6390		Negative	
6391	1	Negative	Negative
6392		Negative	
6393	2	Negative	Negative
6394	1	Negative	Negative
6400	1	Negative	Negative
6403	1	Negative	Negative
6404		Negative	
6405		Negative	
6407	1	Negative	Negative
6408	2	Negative	Negative
6409		Negative	
6410		Negative	
6411		Negative	
6412	2	Negative	Negative
6414	1	Negative	Negative
6416	1	Negative	Negative
6417	1	Negative	Negative
6418	1	Negative	Negative
6420		Negative	
6422	2	Negative	Negative
6423	1	Negative	Negative
6424	1	Negative	Negative

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Table 82
Animals Sacrificed at Termination
Methyl parasept - high level- female

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
6427	1	Negative	Negative
6428		Negative	
6430	2	Negative	Negative
6431		Negative	
6432	1	Negative	Negative
6434	2	Negative	Negative
6435	1	Negative	Negative
6437		Negative	
6438	1	Submaxillary	Not neoplastic, abscess
6440		Negative	
6441	3	Lung	Not neoplastic; abscess with granu- lamatous tissue
6451		Negative	
6452	2	Negative	Negative
6453	1	Negative	Lung adenoma
6454		Negative	
6455	1	Negative	Negative
6456	1	Negative	Negative
6458		Negative	
6459	3	Uterus	Not neoplastic, cystic endometritis
6460		Negative	
6462		Negative	
6463	1	Negative	Lung adenoma
6465	1	Negative	Negative
6466	1	Thymus	Not neoplastic
6467	1	Negative	Negative
6468	1	Negative	Negative
6469		Negative	
6471		Negative	
6472	1	Negative	Negative
6473	1	Negative	Negative
6474	1	Negative	Negative

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Table 83

Animals Sacrificed at Termination
Positive control - DBA in oil - low level - male

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
5729	1	Negative	Negative
5731	1	Negative	Negative
5732	1	Lung	No neoplasm in 4 lobes presented
5733	2	Negative	Negative
5739	2	Negative	Negative
5740	1	Negative	Negative
5746	1	Negative	Negative
5749	1	Negative	Negative
5751		Negative	
5755	1	Lung	Mixed fibro lymphosarcoma of urinary bladder; kybgn ktnogisarcina
5756	1	Negative	Negative
5757	1	Negative	Negative
5758	1	Negative	Negative
5760	1	Negative	Cystic adenoma of lung
5761		Negative	
5762	1	Negative	Negative
5767	2	Negative	Negative
5771	1	Negative	Negative
5772	2	Negative	Negative
5774		Negative	
5775	1	Negative	Negative
5777		Negative	
5778	1	Negative	Negative

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Table 84

Animals Sacrificed at Termination

Positive control - DBA in oil - low level - female

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
5781	2	Negative	Negative
5782	1	Negative	Kidney lymphomatous infiltration
5784	2	Negative	Negative
5790	1	Negative	Negative
5793	1	Kidney area	Not neoplastic, hemorrhagic
5794	2	Negative	Negative
5795	2	Negative	Negative
5796	2	Negative	Negative
5797	1	Negative	Negative
5798	1	Negative	Lung, early adenoma
5799	2	Negative	Negative
5806	1	Uterus	Negative
5807	1	Negative	Negative
5808	2	Liver, uterus, bladder	Sarcoma
5810	3	Lung	Not neoplastic, terminal hemorrhage
5811		Negative	
5812		Negative	
5814	1	Negative	Negative
5815		Negative	
5816	1	Negative	Negative
5817		Negative	
5818	1	Negative	Negative
5820	1	Negative	Negative
5821	1	Negative	Negative
5824	1	Negative	Negative
5825	1	Negative	Negative
5826		Negative	
5827	3	Site of injection (subcu.)	Sarcoma, probably spindle cell
5828	1	Negative	Negative

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Table 85

Animals Sacrificed at Termination

Positive control - DBA in oil - high level - male

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
5632	1	Negative	Negative
5639	1	Submaxillary	Not neoplastic
5644		Negative	
5645	1	Negative	Negative
5646	1	Negative	Negative
5648	1	Negative	Lung adenoma, hepatoma
5651	1	Negative	Negative
5657	1	Submaxillary, lung	
5666	1	Negative	Negative
5669	1	Negative	Negative
5671	1	Lung	Adenoma
5672	1	Negative	Negative
5676	1	Negative	Negative
5677	1	Negative	Negative
5678	1	Mesenteric L.N.	Not neoplastic, hyperplasia

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Table 86

Animals Sacrificed at Termination

Positive control - DBA in oil - high level - females

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
5679		Negative	Adenoma
5680	1	Lung	Negative
5682	1	Negative	Negative
5683	1	Negative	Negative
5688	1	Negative	Negative
5690	2	Negative	Negative
5691	2	Bladder and/or colon	Negative
5692	1	Negative	Negative
5697	2	Ovary	Not neoplastic, hemorrhagic cyst
5699	1	Negative	Negative
5700	1	Lung	Adenoma
5701	1	Negative	Negative
5707	2	Negative	Lung adenoma
5708	1	Negative	Negative
5709	1	Negative	Negative
5710	1	Negative	Negative
5711	1	Negative	Negative
5715	2	Negative	Subcu., Necrosis, probably a sarcoma; lymph- omatous spleen
5717	1	Negative	Negative
5720	1	Negative	Adenoma of lung
5724	2	Lung	No neoplasm in 4 lobe sections presented
5727	2	Negative	Negative

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Table 87

Animals Sacrificed at Termination
Positive control - DGA in saline - low level - male

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
5245	1	Negative	Negative
5246		Negative	
5247	1	Negative	Negative
5249	1	Negative	Negative
5251	1	Negative	Negative
5252	1	Negative	Negative
5262	1	Negative	Negative
5264			
5265	1	Negative	Negative
5267	1	Negative	Negative
5269	2	Negative	Negative
5274	2	Negative	Negative
5276	1	Negative	Negative
5278	1	Negative	Negative
5280	1	Spleen	Lymphomatous hyperplasia
5283	3	Subcutaneous	Abscess
5285	1	Lung	Not neoplastic, chronic pneumonia
5286	1	Lung	Not neoplastic, chronic pneumonia
5287	1	Negative	Negative
5288	1	Negative	Negative

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Table 88

Animals Sacrificed at Termination

Positive control - DBA in saline - low level - females

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
5300	3	Spleen	Not neoplastic
5301	1	Negative	Negative
5302		Negative	
5303	2	Pancreas	Negative
5304		Negative	
5305	1	Negative	Negative
5306	1	Lung	Adenoma
5309	1	Negative	Negative
5311		Negative	
5315		Negative	
5316		Negative	
5318	2	Negative	Negative
5319	1	Negative	Negative
5321	1	Lung (small)	Thyroid, adenoma; lung, no neoplasm on section
5322	1	Negative	Negative
5323	2	Negative	Negative
5324		Negative	
5325	1	Negative	Lung adenoma
5326	1	Negative	Negative
5327	2	Negative	Negative
5330	1	Negative	Negative
5331	1	Negative	Negative
5332	1	Negative	Negative
5333	1	Uterus	Not neoplastic, cystic endometritis
5334		Negative	
5335	1	Negative	Negative
5337	2	Negative	Negative
5338	2	Negative	Negative
5339	1	Negative	Lymphomatous infiltration of kidney

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Table 89

Animals Sacrificed at Termination

Positive control - DBA in saline - high level - males

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
5344		Negative	Negative
5345	1	Negative	Negative
5347	1	Negative	Adenoma
5351	1	Lung	Lung adenoma
5352	1	Negative	Adenoma
5353	1	Lung	Pancreas, sarcoma, mixed lympho and
5354	1	Negative	fibro
5356	1	Lung	Adenoma
5357	1	Negative	Lung adenoma
5358	2	Negative	Negative
5359	1	Lung	No neoplasm on 3 lobes presented
5362	1	Negative	Negative
5363		Negative	
5365	2	Negative	Negative
5367	1	Negative	Negative
5368	2	Lung	Negative
5369	3	Lung	Adenoma, early
5370	2	Negative	Negative
5371	2	Negative	Negative
5372	3	Lung	No neoplasm in sections presented
5373	1	Negative	Lung adenoma (early)
5374	1	Lung	Adenoma, necrotic
5375	1	Base of head, subcu.	Possibly lymphosarcoma, advanced
			necrosis
5378	1	Lung	Adenoma
5379		Negative	
5380	3	Lung	Adenoma
5381	3	Lung	No neoplasm on 3 lobes presented

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Table 90

Animals Sacrificed at Termination

Positive control - DBA in saline - high level - female

Animal No.	Code	Neoplasms Observed	
		Gross (location)	Histologic (type)
5391	1	Lung	No neoplasm in 4 lobes presented
5392	2	Negative	Negative
5393	1	Negative	Lung adenoma
5394	2	Negative	Negative
5395	1	Lung	Lymphsarcoma, mediastinal lymph node; lung adenoma
5396	1	Lung, spleen	Lymphosarcoma of pancreas and liver; adenoma of lung
5397		Negative	
5398		Negative	
5399		Negative	
5400	2	Negative	Negative
5401	1	Negative	Negative
5402	1	Thymus	Lymphosarcoma
5404		Negative	
5405	1	Thorax	Lymphosarcoma
5406	1	Uterus	Uterus not neoplastic; lymphosarcoma spleen and thorax
5407	2	Ovary, omentum	No neoplasm in sections observed
5408	3	Lung	Adenoma
5409	3	Lung	Sarcoma with bony metaplasia
5410	1	Lung, uterus	Lung adenoma, uterus not neoplastic
5411	2	Lung	Adenoma
5412	1	Negative	Negative
5413		Negative	
5414		Negative	
5417	3	Lung	Adenoma
5418	3	Lung	Adenoma
5420	1	Lung	Adenoma
5421	2	Negative	
5422	3	Uterus	Not neoplastic, cystic endometritis
5423		Negative	
5424	3	Lung	No neoplasm in 3 lobes presented
5427		Negative	
5428	3	Lung	Adenoma
5429	2	Negative	Lung adenoma, early
5430	1	Lung	Adenoma
5431	2	Negative	Cystic and lymphomatous kidney
5432	1	Lung, uterus	Lung adenoma, uterus not neoplastic
5433	2	Lung	No neoplasm in 3 lobes presented
5434	1	Lung	Negative
5435		Negative	
5437	1	Uterus	Not neoplastic